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GOVERNOR



PEGGY M. HATCH
SECRETARY

State of Louisiana
DEPARTMENT OF ENVIRONMENTAL QUALITY
ENVIRONMENTAL SERVICES

Certified Mail No.:

Activity No.: PER20090001
Agency Interest No.: 3585

Mr. Russ Willmon
President & CEO
Calcasieu Refining Company
4359 W. Tank Farm Road
Lake Charles, LA 70605

RE: Part 70 Operating Permit Renewal and Modification, Lake Charles Crude Oil Refinery, Calcasieu Refining Company, Lake Charles, Calcasieu Parish, Louisiana

Dear Mr. Willmon:

This is to inform you that the permit renewal and modification for the above referenced facility has been approved under LAC 33:III.501. The permit is both a state preconstruction and Part 70 Operating Permit. The submittal was approved on the basis of the emissions reported and the approval in no way guarantees the design scheme presented will be capable of controlling the emissions as to the types and quantities stated. A new application must be submitted if the reported emissions are exceeded after operations begin. The synopsis, data sheets and conditions are attached herewith.

It will be considered a violation of the permit if all proposed control measures and/or equipment are not installed and properly operated and maintained as specified in the application.

Operation of this facility is hereby authorized under the terms and conditions of this permit. This authorization shall expire at midnight on the _____ of _____, 2015, unless a timely and complete renewal application has been submitted six months prior to expiration. Terms and conditions of this permit shall remain in effect until such time as the permitting authority takes final action on the application for permit renewal. The permit number and agency interest number cited above should be referenced in future correspondence regarding this facility.

Please be advised that pursuant to provisions of the Environmental Quality Act and the Administrative Procedure Act, the Department may initiate review of a permit during its term. However, before it takes any action to modify, suspend or revoke a permit, the Department shall, in accordance with applicable statutes and regulations, notify the permittee by mail of the facts or operational conduct that warrant the intended action and provide the permittee with the opportunity to demonstrate compliance with all lawful requirements for the retention of the effective permit.

Done this _____ day of _____, 2010.

Permit No.: 0520-00050-V7

Sincerely,

Cheryl Sonnier Nolan
Assistant Secretary
CSN:QMZ
c: EPA Region VI

**AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY**

**Lake Charles Crude Oil Refinery
Agency Interest No. 3585
Calcasieu Refining Company
Lake Charles, Calcasieu Parish, Louisiana**

I. Background

The Lake Charles Crude Oil Refinery was originally permitted and constructed in 1977. Numerous modifications to the refinery have been done since then. In 2004, the Haymark Terminal was acquired from Shell Pipeline Company and is used for the refinery loading operations. The previous operation permit number for the facility is 0520-00050-V6, issued April 16, 2007.

II. Origin

A permit application, dated May 29, 2009, was submitted by Calcasieu Refining Company requesting a Part 70 operating permit renewal and modification. Additional information dated September 18 and 22, October 8, 2009 and March 4, 2010 was also received.

III. Description

This petroleum refinery facility consists of two Atmospheric Distillation Units (ADUs, No. 2 and No. 5), one Vacuum Tower Unit (VTU), and associated process equipment, a storage terminal, product loading operations, and support utility systems (e.g., boilers and wastewater treatment). The ADUs separate crude oil into various petroleum fractions, including liquefied petroleum gas (LPG), naphtha, kerosene, diesel, mineral spirits, and vacuum tower bottoms (VTB). These refined petroleum products are sold and transported offsite by barge, product pipeline, and tanker truck. The capacity of the refinery is approximately 96,000 BPSD.

Atmospheric Distillation Units (ADUs)

Crude oil and/or condensate are pumped from the storage tanks to one of two ADUs for processing. Overhead from the atmospheric distillation columns feed the stabilizer column.

Crude oil and condensate from storage is desalted, preheated in the crude heaters, and then passed through a series of heat exchangers before entering the atmospheric distillation columns. In the atmospheric distillation columns, the hot crude oil is separated into different fractions. The overhead vapor from the atmospheric distillation columns includes LPG, naphtha, and lighter hydrocarbons such as methane, ethane, propane, and butane. The overhead vapors from each atmospheric distillation column pass through a condenser, where a portion of the overhead turns into liquid. Liquid and vapors from each column flow into the accumulators. The noncondensable vent gases from each of the accumulators are treated with caustic prior to entering the fuel gas system. A portion of the condensed liquid from each accumulator is pumped back to each atmospheric tower as reflux. The remaining liquid from each accumulator is sent to the stabilizer distillation column for further processing.

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A side stream of heavy naphtha is drawn off the atmospheric tower trays of each atmospheric distillation column. This heavy naphtha is blended with stabilized naphtha (i.e., stabilizer column bottoms) to produce a blended naphtha product. The blended naphtha product is sent to storage prior to offsite shipment. Kerosene is also drawn off each atmospheric tower as a side stream. This kerosene product is pumped to storage prior to offsite shipment. Another side stream drawn off the atmospheric towers is diesel. The diesel product stream is treated and then sent to storage prior to offsite shipment. A final draw for the towers may include gas oil. Bottoms from each atmospheric tower, referred to as reduced crude, are routed to VTU for further processing.

A portion of the liquid from each atmospheric distillation column is pumped from the accumulators to the stabilizer distillation column. The stabilizer column separates the feed streams into different boiling point fractions. The overhead vapors from the stabilizer distillation column pass through a condenser, where a portion of the overhead turns into liquid. The liquid and vapors flow into an accumulator. The noncondensable vent gas from the stabilizer column accumulators is treated with caustic prior to entering the fuel gas system. A portion of the condensed liquid is pumped back to the stabilizer columns as reflux. The remainder of the stabilizer column overhead product, which is commonly known as LPG, is sent to a pressurized storage tank for storage prior to offsite shipment. Stabilizer column bottoms, also known as stabilized naphtha, are blended with heavy naphtha drawn off the atmospheric distillation columns to produce a blended naphtha product stream.

The process heaters in the ADUs are designated as H-201 (Stabilizer Reboiler), H-204 (Crude Heater), H-205 (Mineral Spirits Stabilizer Reboiler), H-501 (CDU Heater), and H-701 (VTU Reboiler). These heaters are fueled with either pipeline-quality natural gas or a mixture of pipeline-quality natural gas and refinery fuel gas (RFG).

The plant flare (F-400) is connected to the flare vent header, which collects process vents from the petroleum refining process. A series of flash drums and condensers are arranged in decreasing pressure to collect the gases relieved to the vent header and separate any condensed liquids from the gases. Separated liquid fraction is recycled back into ADUs for processing. The noncondensable fraction is routed to a smokeless plant flare.

The flare routinely combusts the pilot gas, fuel gas purge, and any process vent gases from ADU turnarounds. The flare pilot is the combustion gas from the pilot burner in the flare stack, which ignites any vent gases directed to the flare stack. A mixture of pipeline-quality natural gas and RFG fuels the pilot burner. Fuel gas purge refers to adding pipeline-quality natural gas into the flare vent header. The natural gas is introduced into the flare vent header as a safety measure to ensure the vent gases in the flare header remain above their upper explosive limit (UEL); thereby, not forming an explosive mixture. All ADUs are prepared for

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maintenance by depressurizing the units and venting vapors to the flare. The process units would not be vented to the atmosphere unless the system pressure is 5 psig or less.

Vacuum Tower Unit

The Vacuum Tower Unit refines and controls products from a low-grade quality crude supply. It allows recovery of the gas-oil and diesel to high-value products from low-value residual material. The remaining residual material can be sold as a 6-oil product or coker feed.

The resid product from the crude units is pumped directly to the vacuum unit from the crude tower bottoms. Once combined, the vacuum unit feed is routed through a charge furnace. The furnace vaporizes the majority of the resid. The furnace outlet enters the vacuum tower, which is operated under deep vacuum to maximize the amount of vaporization. In the tower, the vaporized material is condensed and removed from the tower in three draw offs – the Slop Wax, Heavy Vacuum Gas Oil (HVGO), and Diesel. The Slop Wax is recycled back to the furnace, and the HVGO and Diesel is taken as products. The material not vaporized is drawn off as vacuum tower bottoms (VTB) and mixed with diesel (Flux VTB) to meet 6-oil or coker feed specifications.

Storage Terminal

Crude oil processed at the CRC facility is unloaded at its storage terminal from barges or is delivered by tanker trucks. All of the received crude oil and condensate is initially placed in storage tanks. In addition, the storage terminal provides storage for the refined petroleum products, prior to their sales and offsite transfer. CRC also stores process additives, water treatment chemicals, and process wastes in other miscellaneous storage tanks.

Product Loading Operations

For LPG loading, a vapor return line is used to transport the displaced vapors from the tanker back to storage tank TK-201. In addition, any vapors from storage tank TK-201 are routed under pressure control to the fuel gas system. The vapor balance system on the LPG loading operation, along with the pressure control valve to relieve vapors to the fuel gas system, ensure negligible VOC emissions from LPG loading operations.

Other loading operations at the facility are Tank Truck Loading Rack (TR-100) to load diesel, kerosene, and mineral spirits; Barge Loading Marine Dock (MD-100) and Haymark Terminal Marine Dock (MD-200) to unload crude oil and load naphtha, kerosene, diesel, VTB, and HVGO. Vapors from the naphtha loading are controlled with a Marine Vapor

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Combustion Unit (MVCU). Vapors from the loading of some products with low vapor pressures (less than 1.5 psia) are vented to the atmosphere.

CRC also utilizes a product pipeline to transfer naphtha product to offsite sales. There are only fugitive emissions associated with this operation.

Steam Boilers

CRC has two steam boilers (Emission Points H-102 and H-103) that provide steam for the petroleum refining process. These boilers are fueled by pipeline-quality natural gas.

Diesel Engines

Two diesel engines are used to drive a fire water pump and an emergency stormwater pump. These diesel engine-driven pumps are intended for use during emergency upsets. The fire water pump (Emission Point P-174) is located on the Marine Dock and the emergency stormwater pump (Emission Point P-402) is located near the wastewater treatment system. During emergency period, diesel fired generators are used for plant power supply.

Wastewater Collection and Treatment

The wastewater collection and treatment system collects process wastewater, process area storm water, and other miscellaneous wastewater streams. Process wastewater includes desalter water, boiler blowdown, and aqueous wastes from various treatment processes. Desalter water is generated from treating the crude oil to remove corrosive salts. Aqueous wastes from treating various hydrocarbon streams (e.g., spent caustic) are pumped to storage tank TK-180 and neutralized using treatment chemicals. The desalter water and the aqueous wastes from storage tank TK-180, along with the blowdown from the boiler feedwater treatment system, are pumped through above ground piping to a covered oil-water separator to mix with the process area storm water.

The process area storm water is collected by a system of process drains located in curbed areas of the facility. These process drains gravity flow to a covered oil-water separator, which is equipped with a corrugated plate that separates any entrained oil from the water. Oil separated from the wastewater, referred to as slop oil, is pumped directly from the oil-water separator back to the crude oil storage tanks. Wastewater from the oil-water separator is pumped to an air floating unit prior to being sent to storage tank TK-310.

Storage tank TK-310 is an equalization tank that allows the wastewater to reach a homogeneous state. Wastewater from this tank is pumped to the biological treatment system. The biological treatment system uses an activated sludge process to destroy contaminants in

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the wastewater. Treated wastewater is then discharged through a weir into the Calcasieu River. The entire wastewater collection and treatment system is designated as an area emission source (Emission Point WWTC-100).

Raw Materials

CRC utilizes crude oil as raw material. CRC also uses various chemicals such as additives, emulsifiers, and antifoam agents. These chemicals have minimal air emissions.

Fuels and Fuel Use

CRC currently has numerous stationary combustion sources, which consist of two steam boilers, five process heaters, two diesel engine-driven pumps, and four diesel engine-driven generators. The heaters and boilers burn either pipeline-quality natural gas only or a mixture of pipeline-quality natural gas and RFG. The pumps and generators are powered using diesel-fired engines.

With this permit renewal and modification, emission rates for the following sources have been reevaluated with the updated information:

- Raw material and product storage tanks,
- Loading operations,
- Plant flare
- The marine vapor combustion unit, and
- The wastewater treatment and collection system.

For operational flexibility, four (4) emission caps for the existing storage tanks are added to the permit. A correction was also made for the Marine Vapor Combustion Unit. This unit was permitted as an open flare in the previous permit. It is actually an enclosed combustion control device.

No new project is proposed with this permit renewal. VOC emission increases due to a past project (No. 5 ADU Expansion Project) are incorporated into this permit. Issues associated with the No. 5 ADU Expansion Project have been resolved in a Consent Decree (Case 2:08-cv-01215-PM-KK). Applicable requirements of the Consent Decree have been incorporated into this permit.

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Estimated emissions from the facility in tons per year are as follows:

<u>Pollutant</u>	<u>Before</u>	<u>After</u>	<u>Change</u>
PM ₁₀	17.25	15.38	- 1.87
SO ₂	40.63	14.65	- 25.98
NO _x	109.09	93.17	- 15.92
CO	122.65	117.88	- 4.77
VOC	133.66	157.88	+ 24.22

VOC LAC 33:III Chapter 51 Toxic Air Pollutants (TAPs):

<u>Pollutant</u>	<u>Before</u>	<u>After</u>	<u>Change</u>
Benzene	8.33	4.86	- 3.47
Cresol	-	0.01	+ 0.01
Cumene	-	0.04	+ 0.04
Ethyl benzene	0.70	0.60	- 0.10
Formaldehyde	0.18	0.13	- 0.05
n-Hexane	5.84	8.65	+ 2.81
Naphthalene	2.09	0.26	- 1.83
Toluene	3.29	4.47	+ 1.18
Xylene (mixed isomers)	2.78	1.65	- 1.13
Total	23.34	20.67	- 2.67

Other VOC (TPY): 137.21

IV. Type of Review

This permit was reviewed for compliance with 40 CFR 70, the Louisiana Air Quality Regulations, New Source Performance Standards (NSPS), and National Emission Standards for Hazardous Air Pollutants (NESHAP). PSD review does not apply.

This facility is a minor source of toxic air pollutants (TAPs) pursuant to LAC 33:III.Chapter 51.

V. Credible Evidence

Notwithstanding any other provisions of any applicable rule or regulation or requirement of this permit that state specific methods that may be used to assess compliance with applicable requirements, pursuant to 40 CFR Part 70 and EPA's Credible Evidence Rule, 62 Fed. Reg. 8314 (Feb. 24, 1997), any credible evidence or information relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance

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or compliance test or procedure had been performed shall be considered for purposes of Title V compliance certifications. Furthermore, for purposes of establishing whether or not a person has violated or is in violation of any emissions limitation or standard or permit condition, nothing in this permit shall preclude the use, including the exclusive use, by any person of any such credible evidence or information.

VI. Public Notice

A notice requesting public comments on the proposed permits was published in *The Advocate*, Baton Rouge and the *American Press*, Lake Charles on [date]. In addition, copies of the public notice were sent to individuals included in the LDEQ mailing list on [date]. The proposed permits were also submitted to US EPA Region VI on [date] for review. All comments will be considered prior to a final permit decision.

VII. Effects on Ambient Air

Emissions associated with the facility modification were reviewed by the Air Quality Assessment Division to ensure compliance with the NAAQS and AAS. LDEQ did not require the applicant to model emissions.

VIII. General Condition XVII Activities

Work Activity	Schedule	Emission Rates – tons/year
Changing Filters	Weekly	VOC: 0.10
Clearing Process Lines and Associated Equipment	Monthly	VOC: 0.20
Instrumentation Maintenance	Weekly	VOC: 0.50
Pump Maintenance	Monthly	VOC: 0.50
Sampling	Daily	VOC: 0.50
Tank Gauging	Daily	VOC: 0.50
Valve Maintenance	Monthly	VOC: 0.70
Inspections on Floating Roof Tanks	Annually	VOC: 2.50
Repair and Maintenance on Control Equipment (e.g., Rupture Discs)	Annually	VOC: 1.00
Removal of API Sludge	Annually	VOC: 0.30
Bio-Solids Application	Monthly	VOC: 0.20

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IX. Insignificant Activities

ID No.	Description	Citation
T-01	Storage Tank (Diesel), 500 gal	[LAC 33:III.501.B.5.A.3]
T-02	Storage Tank (Diesel), 200 gal	[LAC 33:III.501.B.5.A.2]
T-03	Storage Tank (Diesel), 200 gal	[LAC 33:III.501.B.5.A.2]
D-146	Storage Tank (Product Additive), 2,000 gal	[LAC 33:III.501.B.5.A.3]
D-147	Storage Tank (Water Treatment), 2,000 gal	[LAC 33:III.501.B.5.B]
D-148	Storage Tank (Product Additive), 7,700 gal	[LAC 33:III.501.B.5.A.3]
D-149	Storage Tank (Product Additive), 7,000 gal	[LAC 33:III.501.B.5.A.3]
D-150	Storage Tank (Product Additive), 1,500 gal	[LAC 33:III.501.B.5.A.3]
D-151	Storage Tank (Product Additive), 5,800 gal	[LAC 33:III.501.B.5.A.3]
TK-106	Storage Tank (Desalter Water Makeup), 12,000 gal	[LAC 33:III.501.B.5.D]
TK-125	Storage Tank (Water Treatment), 1,650 gal	[LAC 33:III.501.B.5.B]
TK-170	Storage Tank (Spent Caustic), 12,600 gal	[LAC 33:III.501.B.5.D]
TK-180	Storage Tank (pH Adjustment), 4,500 gal	[LAC 33:III.501.B.5.A.3]
TK-250	Storage Tank (Neutralizer), 1,000 gal	[LAC 33:III.501.B.5.A.3]
TK-251	Storage Tank (Filmer), 1,000 gal	[LAC 33:III.501.B.5.A.3]
TK-252	Storage Tank (Emulsion Breaker), 1,000 gal	[LAC 33:III.501.B.5.A.3]
TK-253	Storage Tank (Anti-Foulant), 1,000 gal	[LAC 33:III.501.B.5.A.3]
TK-254	Storage Tank (Polymer), 1,500 gal	[LAC 33:III.501.B.5.A.3]
TK-255	Storage Tank (Water Treatment), 1,000 gal	[LAC 33:III.501.B.5.B]
TK-451	Storage Tank (Water Treatment), 1,000 gal	[LAC 33:III.501.B.5.B]
TK-452	Storage Tank (Water Treatment), 1,000 gal	[LAC 33:III.501.B.5.B]
TK-453	Storage Tank (Water Treatment), 1,000 gal	[LAC 33:III.501.B.5.B]
TK-550	Storage Tank (Water Treatment), 2,000 gal	[LAC 33:III.501.B.5.B]
TK-551	Storage Tank (Water Treatment), 2,000 gal	[LAC 33:III.501.B.5.B]
TK-552	Storage Tank (Water Treatment), 2,000 gal	[LAC 33:III.501.B.5.B]
TK-553	Storage Tank (Water Treatment), 2,000 gal	[LAC 33:III.501.B.5.B]
TK-554	Storage Tank (Water Treatment), 1,300 gal	[LAC 33:III.501.B.5.B]
50-TK-5001	Storage Tank (Diesel), 15,000 gal	[LAC 33:III.501.B.5.D]
50-TK-5002	Storage Tank (Diesel), 15,000 gal	[LAC 33:III.501.B.5.D]

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

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X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.	Description	LAC 33:III.Chapter																	
		5▲	9	11	13	15	2103	2107	2108	2109	2111	2113	2122	22	29*	51*	53*	56	59*
UNF001	Lake Charles Crude Oil Refinery	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CON003	MVVCU - Marine Vapor Combustion Unit (F-300)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EQT007	32-G-3201 - Emergency Diesel Generator	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EQT008	50-G-5001 - Emergency Generator No. 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EQT009	50-G-5002 - Emergency Generator No. 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EQT012	CT-100 - Cooling Tower	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EQT013	D-315 - Sulfuric Acid Storage Tank	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EQT015	F-400 - Flare	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EQT016	H-102 - Steam Boiler No. 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EQT017	H-103 - Steam Boiler No. 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EQT018	H-201 - No. 6 Stabilizer Reboiler	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EQT019	H-204 - Crude Oil Heater	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EQT020	H-205 - Mineral Spirits Stabilizer Reboiler	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EQT021	H-501 - No. 5 CDU Heater	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EQT023	MD-100 - Marine Docks (Barge Loading)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EQT024	MD-200 - Marine Docks (Haymark Dock, Barge Loading)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EQT027	TK-300 - Crude Oil Storage Tank	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EQT028	TK-301 - Heavy Products Storage Tank	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EQT029	TK-302 - Mineral Spirits Storage Tank	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EQT030	TK-303 - Heavy Products Storage Tank	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EQT031	TK-304 - Heavy Products Storage Tank	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EQT032	TK-305 - Heavy Products Storage Tank	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EQT033	TK-306 - Heavy Products Storage Tank	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EQT034	TK-307 - Intermediate Products Storage Tank	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EQT035	TK-308 - Heavy Products Storage Tank	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EQT036	TK-309 - Storm Water / Wastewater Storage Tank	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EQT037	TK-310 - Wastewater Storage Tank	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

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X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.	Description	LAC 33:III.Chapter																	
		5▲	9	11	13	15	2103	2107	2108	2109	2111	2113	2122	22	29*	51*	53*	56	59*
EQT038	TK-311 - Crude Oil Storage Tank																		
EQT039	TK-312 - Crude Oil Storage Tank																		
EQT040	TK-313 - Crude Oil Storage Tank																		
EQT041	TK-314 - Intermediate Products Storage Tank																		
EQT042	TK-315 - Intermediate Products Storage Tank																		
EQT043	TK-316 - Naphtha Storage Tank																		
EQT044	TK-317 - Heavy Products Storage Tank																		
EQT045	TK-318 - Intermediate Products Storage Tank																		
EQT046	TK-319 - Intermediate Products Storage Tank																		
EQT047	TK-450 - Hydrochloric Acid Storage Tank																		
EQT048	TR-100 - Truck Rack (Truck Loading)																		
EQT049	WWT-C-100 - Wastewater Treatment And Collection																		
EQT051	Vacuum Tower Unit Reboiler																		
EQT054	TK-320 - Naphtha Storage Tank																		
EQT055	TK-126 - Sulfuric Acid Storage Tank																		
EQT056	TK-WW-D-315 - Sulfuric Acid Storage Tank																		
EQT057	Frac Tank - Oily Water Storage Tank																		
EQT058	EMERG - Backup Diesel Generator																		
EQT059	P-174 - Emergency Firewater Pump Engine																		
EQT060	P-402 - Stormwater Pump Engine																		
FUG007	FUG - Facility Fugitives																		

- * The regulations indicated above are State Only regulations.
- ▲ All LAC 33:III Chapter 5 citations are federally enforceable including LAC 33:III.501.C.6 citations, except when the requirement found in the "Specific Requirements" report specifically states that the regulation is State Only.

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KEY TO MATRIX

- | | |
|---|--|
| 1 | -The regulations have applicable requirements that apply to this particular emission source.
-The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements. |
| 2 | -The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date. |
| 3 | -The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source. |
| | Blank – The regulations clearly do not apply to this type of emission source. |

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Lake Charles Crude Oil Refinery
Agency Interest No. 3585
Calcasieu Refining Company
Lake Charles, Calcasieu Parish, Louisiana

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.	Description	40 CFR 60 NSPS												40 CFR 61												40 CFR 63																		
		A	Dc	J	K	Ka	Kb	GGG	QQQ	III	A	M	FF	A	F	G	Q	ZZZZ	64	68	82	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1						
UNF001	Lake Charles Crude Oil Refinery	-																																										
CON003	MVCU - Marine Vapor Combustion Unit (F-300)	-																																										
EQT007	32-G-3201 - Emergency Diesel Generator	-																																										
EQT008	50-G-5001 - Emergency Generator No. 1	-																																										
EQT009	50-G-5002 - Emergency Generator No. 2	-																																										
EQT012	CT-100 - Cooling Tower	-																																										
EQT013	D-315 - Sulfuric Acid Storage Tank	-																																										
EQT015	F-400 - Flare	-																																										
EQT016	H-102 - Steam Boiler No. 2	-																																										
EQT017	H-103 - Steam Boiler No. 3	-																																										
EQT018	H-201 - No. 6 Stabilizer Reboiler	-																																										
EQT019	H-204 - Crude Oil Heater	-																																										
EQT020	H-205 - Mineral Spirits Stabilizer Reboiler	-																																										
EQT021	H-501 - No. 5 CDU Heater	-																																										
EQT023	MD-100 - Marine Docks (Barge Loading)	-																																										
EQT024	MD-200 - Marine Docks (Haymark Dock) Barge Loading	-																																										
EQT027	TK-300 - Crude Oil Storage Tank	-																																										
EQT028	TK-301 - Heavy Products Storage Tank	-																																										
EQT029	TK-302 - Mineral Spirits Storage Tank	-																																										
EQT030	TK-303 - Heavy Products Storage Tank	-																																										
EQT031	TK-304 - Heavy Products Storage Tank	-																																										
EQT032	TK-305 - Heavy Products Storage Tank	-																																										
EQT033	TK-306 - Heavy Products Storage Tank	-																																										
EQT034	TK-307 - Intermediate Products Storage Tank	-																																										
EQT035	TK-308 - Heavy Products Storage Tank	-																																										
EQT036	TK-309 - Storm Water / Wastewater Storage Tank	-																																										

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Lake Charles Crude Oil Refinery
Agency Interest No. 3585
Calcasieu Refining Company
Lake Charles, Calcasieu Parish, Louisiana

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.	Description	40 CFR 60 NSPS						40 CFR 61						40 CFR 63						40 CFR					
		A	Dc	J	K	Ka	Kb	GGG	QQQ	III	A	M	FF	F	G	Q	ZZZZ	64	68	82					
EQT037	TK-310 - Wastewater Storage Tank							1																	
EQT038	TK-311 - Crude Oil Storage Tank							1																	
EQT039	TK-312 - Crude Oil Storage Tank							1																	
EQT040	TK-313 - Crude Oil Storage Tank							1																	
EQT041	TK-314 - Intermediate Products Storage Tank							2																	
EQT042	TK-315 - Intermediate Products Storage Tank							2																	
EQT043	TK-316 - Naphtha Storage Tank							1																	
EQT044	TK-317 - Heavy Products Storage Tank							2																	
EQT045	TK-318 - Intermediate Products Storage Tank							2																	
EQT046	TK-319 - Intermediate Products Storage Tank							2																	
EQT047	TK-450 - Hydrochloric Acid Storage Tank																								
EQT048	TR-100 - Truck Rack (Truck Loading)																1								
EQT049	WWTC-100 - Wastewater Treatment And Collection																								
EQT051	Vacuum Tower Unit Reboiler							1																	
EQT054	TK-320 - Naphtha Storage Tank							1																	
EQT055	TK-126 - Sulfuric Acid Storage Tank																								
EQT056	TK-WW-D-315 - Sulfuric Acid Storage Tank																								
EQT057	Frac Tank - Oily Water Storage Tank							3																	
EQT058	EMERG - Backup Diesel Generator																								
EQT059	P-174 - Emergency Firewater Pump Engine																								
EQT060	P-402 - Stormwater Pump Engine																								
FUG007	FUG - Facility Fugitives																	1							

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Lake Charles Crude Oil Refinery
Agency Interest No. 3585
Calcasieu Refining Company
Lake Charles, Calcasieu Parish, Louisiana

KEY TO MATRIX

- 1 -The regulations have applicable requirements that apply to this particular emission source.
-The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- 2 -The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- 3 -The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.

Blank – The regulations clearly do not apply to this type of emission source.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Lake Charles Crude Oil Refinery
Agency Interest No. 3585
Calcasieu Refining Company
Lake Charles, Calcasieu Parish, Louisiana

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
CON003, EQT015, EQT018, EQT019, EQT051	Emission Standards for Sulfur Dioxide [LAC 33:III.1502]	Does not apply – SO ₂ , Emissions from each point source are less than 5 tons per year.
EQT007, EQT008, EQT009, EQT059, EQT060	Emission Standards for Sulfur Dioxide [LAC 33:III.1502] NSPS Subpart III – Stationary Compression Ignition Internal Combustion Engines [40 CFR 60.4200]	Does not apply – SO ₂ , Emissions from each point source are less than 5 tons per year. Does not apply – Emergency engines manufactured before April 1, 2006.
EQT012	NESHAP Subpart Q – Industrial Process Cooling Towers [40 CFR 63.400]	Does not apply – Does not use chromium-based water treatment chemicals.
EQT016, EQT017, EQT020	Emission Standards for Sulfur Dioxide [LAC 33:III.1502]	Does not apply – SO ₂ , Emissions from each point source are less than 5 tons per year.
EQT023	NSPS Subpart J – Petroleum Refineries [40 CFR 60.100] Marine Vapor Recovery [LAC 33:III.2108]	Does not apply – Burn natural gas only. Does not apply – Uncontrolled VOC emissions < 100 TPY.
EQT028, EQT030, EQT031, EQT032, EQT033, EQT034, EQT035	NSPS Subpart K – Storage Vessels for Petroleum Liquids [40 CFR 60.110 though 113] Storage of Volatile Organic Compounds [LAC 33:III.2103]	Exempt – Vapor pressure is less than 1.0 psia. Exempt – Vapor pressure is less than 1.5 psia.
EQT041, EQT042, EQT045	NSPS Subpart Ka – Storage Vessels for Petroleum Liquids [40 CFR 60.110a though 115a]	Exempt – Vapor pressure is less than 1.0 psia.
EQT044, EQT046	Storage of Volatile Organic Compounds [LAC 33:III.2103] NSPS Subpart Kb – Volatile Organic Liquid Storage Vessels [40 CFR 60.110a though 115a]	Exempt – Vapor pressure is less than 1.5 psia. Exempt – Vapor pressure is less than 1.0 psia.
EQT049	Storage of Volatile Organic Compounds [LAC 33:III.2103] Oil/Water Separation [LAC 33:III.2109]	Exempt – Vapor pressure is less than 1.5 psia. Exempt – True vapor pressure (VOC) < 0.5 psia.
EQT057	NSPS Subpart Kb – Volatile Organic Liquid Storage Vessels [40 CFR 60.110b]	Does not apply – Capacity < 39,890 gal and vapor pressure < 2.18 psia.
EQT058	Emission Standards for Sulfur Dioxide [LAC 33:III.1502]	Does not apply – SO ₂ , Emissions < than 5 tons per year.

The above table provides explanation for both the exemption status and non-applicability of a source cited by 1, 2 or 3 in the matrix presented in Section X (Table 1) of this permit.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

Lake Charles Crude Oil Refinery
Agency Interest No. 3585
Calcasieu Refining Company
Lake Charles, Calcasieu Parish, Louisiana

XII. Equipment List

Emission Point/Identifier	Description	Note
MD-100 (Marine Docks)	No. 1 Dock (5 Loading Stations)	
	No. 2 Dock (2 Loading Arms)	
	Barges	
MD-200 (Marine Docks)	No. 3 Dock	
	No. 4 Dock	
	Barges	
TR-100 (Truck Loading)	LPG Vapor Return Line	
	HPP Loading Stations	
	Tanker Trucks	
	LPG Tank (TK-201)	
MVCU (Combustion Unit)	Marine Dock (MD-200)	
F-400 (Flare)	Pressure Safety Valves	
	Atmospheric Distillation Units	
	Other Distillation Units	
	Natural Gas Purge	
WWTC-100	Drains	
	Oil-Water Separator (API R-WW200)	
	Equalization Tank (TK-310)	
	Dissolved Air Flotation Units (GGF R-WW500/550)	
	Circular Clarifiers (TK-WW1100/1150)	
	Aeration Tanks (TK-400/425)	
	Storage Tanks (TK-WW700/800/1300)	

INVENTORIES

AI ID: 3585 - Calcasieu Refining Co - Lake Charles Crude Oil Refinery
 Activity Number: PER20090001
 Permit Number: 0520-00050-V7
 Air - Title V Regular Permit Renewal

Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
Lake Charles Crude Oil Refinery						
CON 0003	INVCU - Marine Vapor Combustion Unit		19.9 MM BTU/hr	19.9 MM BTU/hr		2500 hr/yr
EQT 0007	32-G-3201 - EMERGENCY DIESEL GENERATOR		470 horsepower	470 horsepower		312 hr/yr
EQT 0008	50-G-5001 - EMERGENCY GENERATOR NO. 1		2880 horsepower	2880 horsepower		104 hr/yr
EQT 0009	50-G-5002 - EMERGENCY GENERATOR NO. 2		2880 horsepower	2880 horsepower		104 hr/yr
EQT 0012	CT-100 - COOLING TOWER		50000 gallons/day	50000 gallons/day		8760 hr/yr
EQT 0013	D-315 - SULFURIC ACID STORAGE TANK	2300 gallons				8760 hr/yr
EQT 0015	F-400 - FLARE		5.6 MM BTU/hr	5.6 MM BTU/hr		8760 hr/yr
EQT 0016	H-102 - STEAM BOILER NO. 2		8.4 MM BTU/hr	8.4 MM BTU/hr		4380 hr/yr
EQT 0017	H-103 - STEAM BOILER NO. 3		25.11 MM BTU/hr	25.11 MM BTU/hr		8760 hr/yr
EQT 0018	H-201 - No. 6 STABILIZER REBOILER		35 MM BTU/hr	35 MM BTU/hr		8760 hr/yr
EQT 0019	H-204 - CRUDE OIL HEATER		110 MM BTU/hr	110 MM BTU/hr		8760 hr/yr
EQT 0020	H-205 - MINERAL SPIRITS STABILIZER REBOILER		9.2 MM BTU/hr	9.2 MM BTU/hr		8760 hr/yr
EQT 0021	H-501 - NO. 5 CDU HEATER		180 MM BTU/hr	180 MM BTU/hr		8760 hr/yr
EQT 0023	MD-100 - MARINE DOCKS (BARGE LOADING)		438.5 MM gallons/yr	438.5 MM gallons/yr		8760 hr/yr
EQT 0024	MD-200 - MARINE DOCKS (HAYMARK DOCK, BARGE LOADING)		922.8 MM gallons/yr	922.8 MM gallons/yr		8760 hr/yr
EQT 0027	TK-300 - CRUDE OIL STORAGE TANK	3.82 million gallons				8760 hr/yr
EQT 0028	TK-301 - HEAVY PRODUCTS STORAGE TANK	1.25 million gallons	9000 bbl/day	9000 bbl/day		8760 hr/yr
EQT 0029	TK-302 - MINERAL SPIRITS STORAGE TANK	401436 gallons				8760 hr/yr
EQT 0030	TK-303 - HEAVY PRODUCTS STORAGE TANK	825342 gallons				8760 hr/yr
EQT 0031	TK-304 - HEAVY PRODUCTS STORAGE TANK	826998 gallons	15000 bbl/day	15000 bbl/day		8760 hr/yr
EQT 0032	TK-305 - HEAVY PRODUCTS STORAGE TANK	1.44 million gallons	9000 bbl/day	9000 bbl/day		8760 hr/yr
EQT 0033	TK-306 - HEAVY PRODUCTS STORAGE TANK	828156 gallons	15000 bbl/day	15000 bbl/day		8760 hr/yr
EQT 0034	TK-307 - INTERMEDIATE PRODUCTS STORAGE TANK	826366 gallons	23000 bbl/day	23000 bbl/day		8760 hr/yr
EQT 0035	TK-308 - HEAVY PRODUCTS STORAGE TANK	1.18 million gallons	9000 bbl/day	9000 bbl/day		8760 hr/yr
EQT 0036	TK-309 - STORM WATER/WASTEWATER STORAGE TANK	413364 gallons				8760 hr/yr
EQT 0037	TK-310 - WASTEWATER STORAGE TANK	379428 gallons				8760 hr/yr
EQT 0038	TK-311 - CRUDE OIL STORAGE TANK	7.58 million gallons				8760 hr/yr
EQT 0039	TK-312 - CRUDE OIL STORAGE TANK	3.69 million gallons				8760 hr/yr
EQT 0040	TK-313 - CRUDE OIL STORAGE TANK	3.74 million gallons				8760 hr/yr
EQT 0041	TK-314 - INTERMEDIATE PRODUCTS STORAGE TANK	3.74 million gallons	23000 bbl/day	23000 bbl/day		8760 hr/yr
EQT 0042	TK-315 - INTERMEDIATE PRODUCTS STORAGE TANK	594972 gallons	23000 bbl/day	23000 bbl/day		8760 hr/yr

INVENTORIES
AI ID: 3585 - Calcasieu Refining Co - Lake Charles Crude Oil Refinery
Activity Number: PER20090001
Permit Number: 0520-00050-V7
Air - Title V Regular Permit Renewal

Subject Item Inventory:	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time		
EQT 0043	Lake Charles Crude Oil Refinery TK-316 - NAPHTHA STORAGE TANK	3.28 million gallons				8760 hr/yr		
EQT 0044	TK-317 - HEAVY PRODUCTS STORAGE TANK	5.33 million gallons				8760 hr/yr		
EQT 0045	TK-318 - INTERMEDIATE PRODUCTS STORAGE TANK	3.31 million gallons	23000 bbl/day			8760 hr/yr		
EQT 0046	TK-319 - INTERMEDIATE PRODUCTS STORAGE TANK	3.31 million gallons	23000 bbl/day			8760 hr/yr		
EQT 0047	TK-450 - HYDROCHLORIC ACID STORAGE TANK	900 gallons	162.5 MM gallons/yr			8760 hr/yr		
EQT 0048	TR-100 - TRUCK RACK (TRUCK LOADING)		120 gallons/min	172800 gallons/day		8760 hr/yr		
EQT 0049	WWTC-100 - WASTEWATER TREATMENT AND COLLECTION					8760 hr/yr		
EQT 0050	TK-20 - PRESSURIZED STORAGE TANK	72700 gallons				8760 hr/yr		
EQT 0051	H-01 - VACUUM TOWER UNIT REBOILER		76.1 MM BTU/hr	76.1 MM btu/yr		8760 hr/yr		
EQT 0052	TK-320 - NAPHTHA STORAGE TANK	3.82 million gallons				8760 hr/yr		
EQT 0055	TK-126 - SULFURIC ACID STORAGE TANK	1600 gallons				8760 hr/yr		
EQT 0056	TK-WW-D-315 - SULFURIC ACID STORAGE TANK	6400 gallons				8760 hr/yr		
EQT 0057	FracTank - OILY WATER STORAGE TANK	21000 gallons				8760 hr/yr		
EQT 0058	EMERG - Backup Diesel Generator			96 horsepower	Diesel	26 hr/yr		
EQT 0059	P-74 - Emergency Firewater Pump Engine		375 horsepower			60 hr/yr		
EQT 0060	P-402 - Stormwater Pump Engine		30 horsepower			52 hr/yr		
FUG 0007	FUG - FACILITY FUGITIVES					(None Specified)		
Stack Information:	ID	Description	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (oF)
EQT 0003	Lake Charles Crude Oil Refinery MCU - Marine Vapor Combustion Unit		35	120402	8.5		50	1800
EQT 0007	32-G-3201 - EMERGENCY DIESEL GENERATOR		7.72	364.2	1		20	500
EQT 0008	50-G-5001 - EMERGENCY GENERATOR NO. 1		213.38	13765.2	1		20	500
EQT 0009	50-G-5002 - EMERGENCY GENERATOR NO. 2		213.38	13765.2	1		20	500
EQT 0010	CT-100 - COOLING TOWER			5000			30	76
EQT 0013	D-315 - SULFURIC ACID STORAGE TANK						10	76
EQT 0015	F-400 - FLARE		.2	17	1.3		100	1800
EQT 0016	H-102 - STEAM BOILER NO. 2		18.8	2490	1		15	400
EQT 0017	H-103 - STEAM BOILER NO. 3		43.86	6268	2		15	435
EQT 0018	H-201 - No 6 STABILIZER REBOILER		17.9	22810	5.2		66	242

INVENTORIES

AI ID: 3585 - Calcasieu Refining Co - Lake Charles Crude Oil Refinery
Activity Number: PER20090001
Permit Number: 0520-00050-V7
Air - Title V Regular Permit Renewal

Stack Information:

ID	Description	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (°F)
Lake Charles Crude Oil Refinery							
EOT 0019	H-204 - CRUDE OIL HEATER	10.5	13640	5.2		137	490
EOT 0020	H-205 - MINERAL SPIRITS STABILIZER REBOILER	20.7	3729	2		88.5	550
EOT 0021	H-501 - NO. 5 CDU HEATER	25	58000	8		175	500
EOT 0023	MD-100 - MARINE DOCKS (BARGE LOADING)						
EOT 0024	MD-200 - MARINE DOCKS (HAYMARK DOCK, BARGE LOADING)						
EOT 0027	TK-300 - CRUDE OIL STORAGE TANK						
EOT 0028	TK-301 - HEAVY PRODUCTS STORAGE TANK						
EOT 0029	TK-302 - MINERAL SPIRITS STORAGE TANK						
EOT 0030	TK-303 - HEAVY PRODUCTS STORAGE TANK						
EOT 0031	TK-304 - HEAVY PRODUCTS STORAGE TANK						
EOT 0032	TK-305 - HEAVY PRODUCTS STORAGE TANK						
EOT 0033	TK-306 - HEAVY PRODUCTS STORAGE TANK						
EOT 0034	TK-307 - INTERMEDIATE PRODUCTS STORAGE TANK						
EOT 0035	TK-308 - HEAVY PRODUCTS STORAGE TANK						
EOT 0036	TK-309 - STORM WATER/WASTEWATER STORAGE TANK						
EOT 0037	TK-310 - WASTEWATER STORAGE TANK						
EOT 0038	TK-311 - CRUDE OIL STORAGE TANK						
EOT 0039	TK-312 - CRUDE OIL STORAGE TANK						
EOT 0040	TK-313 - CRUDE OIL STORAGE TANK						
EOT 0041	TK-314 - INTERMEDIATE PRODUCTS STORAGE TANK						
EOT 0042	TK-315 - INTERMEDIATE PRODUCTS STORAGE TANK						
EOT 0043	TK-316 - NAPHTHA STORAGE TANK						
EOT 0044	TK-317 - HEAVY PRODUCTS STORAGE TANK						
EOT 0045	TK-318 - INTERMEDIATE PRODUCTS STORAGE TANK						
EOT 0046	TK-319 - INTERMEDIATE PRODUCTS STORAGE TANK						
EOT 0047	TK-450 - HYDROCHLORIC ACID STORAGE TANK						
EOT 0048	TR-100 - TRUCK RACK (TRUCK LOADING)	0	0	0	5250	3.28	76
EOT 0049	WWTC-100 - WASTEWATER TREATMENT AND COLLECTION						
EOT 0051	H-701 - VACUUM TOWER UNIT REBOILER	10	12270	5		100	742
EOT 0054	TK-320 - NAPHTHA STORAGE TANK						
EOT 0055	TK-126 - SULFURIC ACID STORAGE TANK						
EOT 0056	TK-WW-D-315 - SULFURIC ACID STORAGE TANK						

INVENTORIES

AI ID: 3585 - Calcasieu Refining Co - Lake Charles Crude Oil Refinery
 Activity Number: PER20090001
 Permit Number: 0520-0050-V7
 Air - Title V Regular Permit Renewal

Stack Information:

ID	Description	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (°F)
Lake Charles Crude Oil Refinery							
EQT 0057	Frac Tank - OILY WATER STORAGE TANK						
EQT 0059	P-174 - Emergency Firewater Pump Engine			.33		10	76
EOT 0060	P-402 - Stormwater Pump Engine			.25		8.5	800
						5	800

Relationships:

ID	Description	Relationship	ID	Description
CON 0003	MV/CU - Marine Vapor Combustion Unit	Controls emissions from	EQT 0024	MD-200 - MARINE DOCKS (HAYMARK DOCK BARGE LOADING)

Subject Item Groups:

ID	Group Type	Group Description
CRG 0001	Common Requirements Group	- Requirements for Heaters/Boilers
CRG 0002	Common Requirements Group	- Existing Engines
GRP 0005	Equipment Group	CAP-1 - Crude Oil Tank Cap
GRP 0006	Equipment Group	CAP-2 - Heavy Product Tank Cap
GRP 0007	Equipment Group	CAP-3 - Intermediate Products Tank Cap
GRP 0008	Equipment Group	CAP-4 - Naphtha Tank Cap
UNF 0001	Unit or Facility Wide	- Lake Charles Crude Oil Refinery

Group Membership:

ID	Description	Member of Groups
EQT 0007	32-G-3201 - EMERGENCY DIESEL GENERATOR	CRG0000000002
EQT 0008	50-G-5001 - EMERGENCY GENERATOR NO. 1	CRG0000000002
EQT 0009	50-G-5002 - EMERGENCY GENERATOR NO. 2	CRG0000000002
EQT 0016	H-102 - STEAM BOILER NO. 2	CRG0000000001
EQT 0017	H-103 - STEAM BOILER NO. 3	CRG0000000001
EQT 0020	H-205 - MINERAL SPIRITS STABILIZER REBOILER	CRG0000000001
EQT 0027	TK-300 - CRUDE OIL STORAGE TANK	GRP0000000005
EOT 0028	TK-301 - HEAVY PRODUCTS STORAGE TANK	GRP0000000006
EOT 0030	TK-303 - HEAVY PRODUCTS STORAGE TANK	GRP0000000006
EQT 0031	TK-304 - HEAVY PRODUCTS STORAGE TANK	GRP0000000006
EQT 0032	TK-305 - HEAVY PRODUCTS STORAGE TANK	GRP0000000006
EQT 0033	TK-306 - HEAVY PRODUCTS STORAGE TANK	GRP0000000006
EQT 0034	TK-307 - INTERMEDIATE PRODUCTS STORAGE TANK	GRP0000000007
EOT 0035	TK-308 - HEAVY PRODUCTS STORAGE TANK	GRP0000000006
EOT 0038	TK-311 - CRUDE OIL STORAGE TANK	GRP0000000005
EQT 0039	TK-312 - CRUDE OIL STORAGE TANK	GRP0000000005

INVENTORIES

AI ID: 3585 - Calcasieu Refining Co - Lake Charles Crude Oil Refinery
 Activity Number: PER20090001
 Permit Number: 0520-00050-Y7
 Air - Title V Regular Permit Renewal

Group Membership:

ID	Description	Member of Groups
EQT 0041	TK-314 - INTERMEDIATE PRODUCTS STORAGE TANK	GRP0000000007
EQT 0042	TK-315 - INTERMEDIATE PRODUCTS STORAGE TANK	GRP0000000007
EQT 0043	TK-316 NAPHTHA STORAGE TANK	GRP0000000008
EQT 0044	TK-317 - HEAVY PRODUCTS STORAGE TANK	GRP0000000006
EQT 0045	TK-318 - INTERMEDIATE PRODUCTS STORAGE TANK	GRP0000000007
EQT 0046	TK-319 - INTERMEDIATE PRODUCTS STORAGE TANK	GRP0000000007
EQT 0054	TK-320 - NAPHTHA STORAGE TANK	GRP0000000008
EQT 0059	P-174 - Emergency Firewater Pump Engine	CRG0000000002
EQT 0060	P-402 - Stormwater Pump Engine	CRG0000000002

NOTE: The UNF group relationship is not printed in this table. Every subject item is a member of the UNF group

Annual Maintenance Fee:

Fee Number	Air Contaminant Source	Multplier	Units Of Measure
0720	0720 Petroleum Refining (Rated Capacity)	96	M bbl/day

SIC Codes:

2911	Petroleum refining	AI 3585
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EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 3585 - Calcasieu Refining Co - Lake Charles Crude Oil Refinery
 Activity Number: PER20090001
 Permit Number: 0520-00050-V7
 Air - Title V Regular Permit Renewal

Subject Item	CO			NOx			PM10			SO2			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year												
Lake Charles Crude Oil Refinery															
CON 0003 MVCU	4.36	8.84	11.10	1.35	1.62	2.04	0.15	0.18	0.22	0.28	0.33	0.42	4.59	9.26	12.10
EQT 0007 12-G-3201	3.14	3.77	0.49	14.57	17.48	2.27	1.03	1.24	0.16	0.96	1.16	0.15	1.16	1.39	0.18
EQT 0008 50-G-5001	14.74	17.69	0.77	64.32	77.18	3.34	1.88	2.25	0.10	1.95	2.34	0.10	1.89	2.27	0.10
EQT 0009 50-G-5002	14.74	17.69	0.77	64.32	77.18	3.34	1.88	2.25	0.10	1.95	2.34	0.10	1.89	2.27	0.10
EQT 0012 C1-100							0.07	0.09	0.31				0.17	0.21	0.76
EQT 0015 F-400	3.62	706.48	15.87	0.67	129.84	2.92	0.04	8.06	0.18	0.04	8.59	0.19	8.03	267.32	35.18
EQT 0016 H-102	0.68	0.82	1.49	0.81	0.97	1.78	0.06	0.07	0.13	<0.01	0.01	0.01	0.04	0.05	0.10
EQT 0017 H-103	0.05	0.06	0.22	1.17	1.40	5.12	0.19	0.22	0.82	0.01	0.02	0.06	0.14	0.16	0.59
EQT 0018 H-201	2.88	3.46	12.62	2.04	2.44	8.91	0.26	0.31	1.14	0.29	0.35	1.29	0.19	0.23	0.83
EQT 0019 H-204	9.06	10.87	39.68	4.89	5.87	21.44	0.82	0.98	3.59	0.62	0.75	2.72	0.59	0.71	2.60
EQT 0020 H-205	0.08	0.10	0.35	0.13	0.16	0.57	0.05	0.07	0.24	0.10	0.12	0.45	0.04	0.05	0.17
EQT 0021 H-501	5.40	6.48	23.67	6.30	7.56	27.59	1.34	1.61	5.89	1.52	1.83	6.67	0.97	1.16	4.25
EQT 0023 MD-100													0.95	1.14	4.16
EQT 0024 MD-200													0.75	0.89	3.27
EQT 0027 TK-300													151.63		
EQT 0028 TK-301													0.14		
EQT 0029 TK-302													0.07	0.08	0.30
EQT 0030 TK-303													0.07		
EQT 0031 TK-304													0.14		
EQT 0032 TK-305													0.17		
EQT 0033 TK-306													0.14		
EQT 0034 TK-307													0.17		
EQT 0035 TK-308													0.15		

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 3585 - Calcasieu Refining Co - Lake Charles Crude Oil Refinery

Activity Number: PER20090001

Permit Number: 0520-00050-V7

Air - Title V Regular Permit Renewal

Subject Item	CO			NOx			PM10			SO2			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year												
Lake Charles Crude Oil Refinery															
EQT 0036	-	-	-	-	-	-	-	-	-	-	-	-	0.49	0.49	2.13
TK-309	-	-	-	-	-	-	-	-	-	-	-	-	0.09	0.09	0.41
EQT 0037	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TK-310	EQT 0038	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TK-311	EQT 0039	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TK-312	EQT 0040	-	-	-	-	-	-	-	-	-	-	-	77.95	-	-
TK-313	EQT 0041	-	-	-	-	-	-	-	-	-	-	-	1.82	160.69	7.99
TK-314	EQT 0042	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TK-315	EQT 0043	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TK-316	EQT 0044	-	-	-	-	-	-	-	-	-	-	-	31.50	-	-
TK-317	EQT 0045	-	-	-	-	-	-	-	-	-	-	-	0.53	-	-
TK-318	EQT 0046	-	-	-	-	-	-	-	-	-	-	-	0.97	-	-
TK-319	EQT 0048	-	-	-	-	-	-	-	-	-	-	-	0.97	-	-
TR-100	EQT 0049	-	-	-	-	-	-	-	-	-	-	-	0.64	0.77	2.82
vw/c.100	EQT 0051	2.46	2.95	10.76	3.07	3.69	13.47	0.57	0.68	2.48	0.56	0.68	2.47	0.15	0.67
H-701	EQT 0054	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TK-320	EQT 0057	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fraction	EQT 0058	0.14	0.17	<0.01	0.66	0.79	0.01	0.02	<0.01	0.20	0.24	<0.01	0.07	0.08	<0.01
EMERG	EQT 0059	2.67	3.20	-	0.08	11.67	14.00	0.35	0.67	0.80	0.02	0.67	0.80	0.02	0.02
P-174	EQT 0060	0.20	0.24	0.01	0.93	1.12	0.02	0.07	0.08	<0.01	0.06	0.07	<0.01	0.07	<0.01
FUG	EQT 0067	-	-	-	-	-	-	-	-	-	-	-	6.02	-	26.37
GRP 0005	CAP-1	-	-	-	-	-	-	-	-	-	-	-	-	6.35	27.80
GRP 0006	CAP-2	-	-	-	-	-	-	-	-	-	-	-	-	1.08	4.72
GRP 0067	CAP-3	-	-	-	-	-	-	-	-	-	-	-	-	1.76	7.73

EMISSION RATES FOR CRITERIA POLLUTANTS

AJ ID: 3585 - Calcasieu Refining Co - Lake Charles Crude Oil Refinery

Activity Number: PEB20080001

אנו מודים לך: פסטיבל אמנים ורממות

Permili Number: 0520-00050-WI

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote.

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 3585 - Calcasieu Refining Co - Lake Charles Crude Oil Refinery

Activity Number: PER20090001

Permit Number: 0520-00050-V7

Air - Title V Regular Permit Renewal

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
CON 0003 MVCU	Benzene	0.03	0.11	0.15
	Ethyl benzene	<0.01	0.01	0.01
	Formaldehyde	<0.01	<0.01	<0.01
	Toluene	0.03	0.10	0.14
	Xylene (mixed isomers)	0.01	0.04	0.06
	n-Hexane	0.30	0.91	1.21
EQT 0007 32-G-3201	Formaldehyde	0.004	0.005	<0.01
EQT 0008 50-G-5001	Benzene	0.01	0.02	<0.01
EQT 0009 50-G-5002	Benzene	0.01	0.02	<0.01
EQT 0012 CT-100	Chlorine	0.01	0.01	0.04
EQT 0013 D-315	Sulfuric acid	<0.01	<0.01	<0.01
EQT 0015 F-400	Benzene	0.004	0.79	0.02
	Formaldehyde	<0.001	0.08	<0.01
	Toluene	0.03	6.58	0.14
	n-Hexane	0.19	41.74	0.83
EQT 0016 H-102	Formaldehyde	0.001	0.001	<0.01
	n-Hexane	0.01	0.02	0.03
EQT 0017 H-103	Formaldehyde	0.002	0.002	0.01
	n-Hexane	0.04	0.05	0.19
EQT 0018 H-201	Formaldehyde	0.003	0.004	0.01
	Toluene	<0.001	<0.001	<0.01
	n-Hexane	0.06	0.07	0.27
EQT 0019 H-204	Benzene	<0.001	<0.001	<0.01
	Formaldehyde	0.01	0.01	0.04
	Toluene	<0.001	<0.001	<0.01
	n-Hexane	0.19	0.23	0.85
EQT 0020 H-205	Formaldehyde	0.001	0.001	<0.01
	n-Hexane	0.01	0.02	0.06
EQT 0021 H-501	Benzene	<0.001	<0.001	<0.01
	Formaldehyde	0.01	0.02	0.06
	Toluene	0.001	0.001	<0.01
	n-Hexane	0.32	0.38	1.39
EQT 0023 MD-100	Benzene	0.01	0.01	0.04

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 3585 - Calcasieu Refining Co - Lake Charles Crude Oil Refinery

Activity Number: PER20090001

Permit Number: 0520-00050-V7

Air - Title V Regular Permit Renewal

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EOT 0023 MD-100	Cumene	0.001	0.001	0.01
	Ethyl benzene	0.01	0.01	0.04
	Naphthalene	0.003	0.004	0.02
	Toluene	0.03	0.04	0.14
	Xylene (mixed isomers)	0.04	0.05	0.17
	n-Hexane	0.08	0.10	0.35
EOT 0024 MD-200	Benzene	0.01	0.01	0.04
	Ethyl benzene	0.01	0.01	0.02
	Naphthalene	0.001	0.001	<0.01
	Toluene	0.14	0.17	0.61
	Xylene (mixed isomers)	0.03	0.03	0.12
	n-Hexane	0.03	0.04	0.14
EOT 0027 TK-300	Benzene		2.76	
	Cresol		<0.001	
	Cumene		<0.01	
	Ethyl benzene		0.01	
	Naphthalene		<0.001	
	Toluene		0.11	
	Xylene (mixed isomers)		0.05	
EOT 0028 TK-301	n-Hexane		2.07	
	Benzene		<0.01	
	Ethyl benzene		<0.01	
	Naphthalene		<0.01	
	Toluene		0.04	
	Xylene (mixed isomers)		<0.01	
EOT 0029 TK-302	n-Hexane		<0.01	
	Toluene	<0.001	0.001	<0.01
	Xylene (mixed isomers)	<0.001	<0.001	<0.01
EOT 0030 TK-303	Benzene		<0.01	
	Ethyl benzene		<0.01	
	Naphthalene		<0.01	
	Toluene		0.02	
	Xylene (mixed isomers)		<0.01	

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 3585 - Calcasieu Refining Co - Lake Charles Crude Oil Refinery

Activity Number: PER20090001

Permit Number: 0520-00050-V7

Air - Title V Regular Permit Renewal

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0030 TK-303	n-Hexane		<0.01	
EQT 0031 TK-304	Benzene		<0.01	
	Ethyl benzene		<0.01	
	Naphthalene		<0.01	
	Toluene	0.04		
	Xylene (mixed isomers)		<0.01	
	n-Hexane		<0.01	
EQT 0032 TK-305	Benzene		<0.01	
	Ethyl benzene		<0.01	
	Naphthalene		<0.01	
	Toluene	0.05		
	Xylene (mixed isomers)		<0.01	
	n-Hexane		<0.01	
EQT 0033 TK-306	Benzene		<0.01	
	Ethyl benzene		<0.01	
	Naphthalene		<0.01	
	Toluene	0.04		
	Xylene (mixed isomers)		<0.01	
	n-Hexane		<0.01	
EQT 0034 TK-307	Benzene		<0.01	
	Cumene		<0.01	
	Ethyl benzene		<0.01	
	Naphthalene		<0.01	
	Toluene	<0.01		
	Xylene (mixed isomers)		<0.01	
EQT 0035 TK-308	n-Hexane		<0.01	
	Benzene		<0.01	
	Ethyl benzene		<0.01	
	Naphthalene		<0.01	
	Toluene	0.04		
	Xylene (mixed isomers)		<0.01	
EQT 0036 TK-309	n-Hexane		<0.01	
	Benzene	0.004	0.004	0.02

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 3585 - Calcasieu Refining Co - Lake Charles Crude Oil Refinery

Activity Number: PER20090001

Permit Number: 0520-00050-V7

Air - Title V Regular Permit Renewal

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EOT 0036 TK-309	Ethyl benzene	<0.001	<0.001	<0.01
	Toluene	0.004	0.004	0.02
	Xylene (mixed isomers)	0.001	0.001	0.01
	n-Hexane	0.02	0.02	0.07
EOT 0037 TK-310	Benzene	0.001	0.001	<0.01
	Ethyl benzene	<0.001	<0.001	<0.01
	Toluene	0.001	0.001	<0.01
	Xylene (mixed isomers)	0.001	0.001	<0.01
	n-Hexane	0.003	0.003	0.01
EOT 0038 TK-311	Benzene		5.6	
	Cresol		<0.001	
	Cumene		<0.01	
	Ethyl benzene		0.03	
	Naphthalene		<0.001	
	Toluene		0.23	
	Xylene (mixed isomers)		0.10	
EOT 0039 TK-312	n-Hexane		4.21	
	Benzene		1.42	
	Cresol		<0.001	
	Cumene		<0.01	
	Ethyl benzene		0.01	
	Naphthalene		<0.001	
	Toluene		0.06	
EOT 0040 TK-313	Xylene (mixed isomers)		0.03	
	n-Hexane		1.06	
	Benzene	0.04	3.02	0.19
	Cresol	<0.001	<0.001	<0.01
	Ethyl benzene	<0.01	0.01	0.01
	Naphthalene	<0.01	<0.01	<0.01
	Toluene	<0.01	0.13	0.02
EOT 0041 TK-314	Xylene (mixed isomers)	0.01	0.06	0.03
	n-Hexane	0.02	2.27	0.11
EOT 0041 TK-314	Benzene		<0.01	

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**AI ID: 3585 - Calcasieu Refining Co - Lake Charles Crude Oil Refinery****Activity Number: PER20090001****Permit Number: 0520-00050-V7****Air - Title V Regular Permit Renewal**

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0041 TK-314	Cumene		<0.01	
	Ethyl benzene		<0.01	
	Naphthalene		<0.01	
	Toluene		<0.01	
	Xylene (mixed isomers)		<0.01	
	n-Hexane		<0.01	
EQT 0042 TK-315	Benzene		<0.01	
	Cumene		<0.01	
	Ethyl benzene		<0.01	
	Naphthalene		<0.01	
	Toluene		<0.01	
	Xylene (mixed isomers)		<0.01	
EQT 0043 TK-316	Benzene		0.39	
	Cumene		<0.01	
	Ethyl benzene		0.04	
	Toluene		0.34	
	Xylene (mixed isomers)		0.13	
	n-Hexane		3.15	
EQT 0044 TK-317	Benzene		<0.01	
	Ethyl benzene		0.02	
	Naphthalene		0.01	
	Toluene		0.14	
	Xylene (mixed isomers)		0.01	
	n-Hexane		0.01	
EQT 0045 TK-318	Benzene		0.01	
	Cumene		<0.01	
	Ethyl benzene		0.01	
	Naphthalene		0.01	
	Toluene		0.03	
	Xylene (mixed isomers)		0.03	
EQT 0046 TK-319	n-Hexane		0.07	
	Benzene		0.01	

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 3585 - Calcasieu Refining Co - Lake Charles Crude Oil Refinery

Activity Number: PER20090001

Permit Number: 0520-00050-V7

Air - Title V Regular Permit Renewal

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0046 TK-319	Cumene		<0.01	
	Ethyl benzene		0.01	
	Naphthalene		0.01	
	Toluene		0.03	
	Xylene (mixed isomers)		0.03	
	n-Hexane		0.07	
EQT 0047 TK-450	Hydrochloric acid	0.01	0.01	0.03
EQT 0048 TR-100	Benzene	0.01	0.01	0.03
	Cumene	0.001	0.001	<0.01
	Ethyl benzene	0.01	0.01	0.02
	Naphthalene	0.002	0.002	0.01
	Toluene	0.02	0.02	0.08
	Xylene (mixed isomers)	0.02	0.03	0.10
	n-Hexane	0.04	0.05	0.18
EQT 0049 WWTC-100	Benzene	0.72	0.87	3.17
	Ethyl benzene	0.01	0.01	0.04
	Naphthalene	0.001	0.001	0.01
	Toluene	0.13	0.16	0.58
	Xylene (mixed isomers)	0.03	0.04	0.14
EQT 0051 H-701	Formaldehyde	0.002	0.002	0.01
	n-Hexane	0.05	0.06	0.22
EQT 0054 TK-320	Benzene		0.85	
	Cumene		0.01	
	Ethyl benzene		0.08	
	Toluene		0.74	
	Xylene (mixed isomers)		0.27	
	n-Hexane		6.85	
EQT 0055 TK-126	Sulfuric acid	<0.001	<0.001	<0.01
EQT 0056 TK-WW-D-315	Sulfuric acid	0.001	0.001	0.01
FUG 0007 FUG	Benzene	0.07		0.31
	Cumene	<0.01		0.02
	Ethyl benzene	0.05		0.20
	Naphthalene	0.01		0.06

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS**AI ID: 3585 - Calcasieu Refining Co - Lake Charles Crude Oil Refinery****Activity Number: PER20090001****Permit Number: 0520-00050-V7****Air - Title V Regular Permit Renewal**

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
FUG 0007 FUG	Toluene	0.25		1.10
	Xylene (mixed isomers)	0.13		0.56
	n-Hexane	0.23		0.99
GRP 0005 CAP-1	Benzene	0.15		0.67
	Cresol	0.001		0.01
	Cumene	0.001		<0.01
	Ethyl benzene	0.004		0.02
	Naphthalene	0.002		0.01
	Toluene	0.01		0.06
	Xylene (mixed isomers)	0.02		0.09
	n-Hexane	0.09		0.40
GRP 0006 CAP-2	Benzene	0.01		0.03
	Ethyl benzene	0.03		0.14
	Naphthalene	0.02		0.09
	Toluene	0.29		1.25
	Xylene (mixed isomers)	0.02		0.10
	n-Hexane	0.03		0.11
GRP 0007 CAP-3	Benzene	0.02		0.10
	Cumene	<0.01		0.01
	Ethyl benzene	0.02		0.09
	Naphthalene	0.01		0.06
	Toluene	0.06		0.24
	Xylene (mixed isomers)	0.05		0.22
	n-Hexane	0.11		0.49
GRP 0008 CAP-4	Benzene	0.02		0.09
	Cumene	<0.001		<0.01
	Ethyl benzene	0.003		0.01
	Toluene	0.02		0.09
	Xylene (mixed isomers)	0.01		0.05
	n-Hexane	0.17		0.75
UNF 0001	Benzene			4.86
	Chlorine			0.04
	Cresol			0.01

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 3585 - Calcasieu Refining Co - Lake Charles Crude Oil Refinery

Activity Number: PER20090001

Permit Number: 0520-00050-V7

Air - Title V Regular Permit Renewal

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
UNF 0001	Cumene			0.04
	Ethyl benzene			0.60
	Formaldehyde			0.13
	Naphthalene			0.26
	Sulfuric acid			0.01
	Toluene			4.47
	Xylene (mixed isomers)			1.65
	n-Hexane			8.65

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote. Emission rates attributed to the UNF reflect the sum of the TAP/HAP limits of the individual emission points (or caps) under this permit, but do not constitute an emission cap.

SPECIFIC REQUIREMENTS

AI ID: 3585 - Calcasieu Refining Co - Lake Charles Crude Oil Refinery
Activity Number: PER20090001
Permit Number: 0520-00050-V7
Air - Title V Regular Permit Renewal

CON 0003 MVCU - Marine Vapor Combustion Unit

- 1 [40 CFR 60.104(a)(1)]
 Fuel gas: Hydrogen sulfide <= 0.1 gr/dscf (230 mg/dscm). Subpart J. [40 CFR 60.104(a)(1)]
 Which Months: All Year Statistical Basis: Three-hour rolling average
- 2 [40 CFR 60.105(a)(4)]
 Hydrogen sulfide monitored by continuous emission monitor (CEM) continuously. Monitor the H2S in fuel gases before being burned in any fuel gas combustion device. Subpart J. [40 CFR 60.105(a)(4)]
- 3 [40 CFR 60.106(a)]
 Which Months: All Year Statistical Basis: None specified
 Use as reference methods and procedures the test methods in 40 CFR 60 appendix A or other methods and procedures as specified in 40 CFR 60.106, except as provided in 40 CFR 60.8(b), in conducting the performance tests required in 40 CFR 60.8. Subpart J. [40 CFR 60.106(a)]
- 4 [40 CFR 60.106]
 Determine compliance with standards using the test methods and procedures specified in 40 CFR 60.106(a) through (k). Subpart J.
- 5 [40 CFR 64.3(b)(3)]
 Specific QA/QC Procedures: Calibrate, operate, and maintain instrumentation using procedures that take into account manufacturer's specifications. [40 CFR 64.3(b)(3)]
- 6 [40 CFR 64.6(c)(1)]
 Equipment/operational data monitored by technically sound method continuously during naphtha loading. [40 CFR 64.6(c)(1)]
- 7 [40 CFR 64.6(c)(2)]
 Which Months: All Year Statistical Basis: None specified
 An excursion or exceedance is defined as naphtha load without the proper control of the MVCU. The MVCU temperature setpoint is 1,500 deg. F, under which all naphtha loading shall cease. [40 CFR 64.6(c)(2)]
- 8 [40 CFR 64.6(c)(2)]
 Submit Notification: Submit to DEQ within 5 working days upon the establishment or reestablishment of any exceedance or excursion level, for purposes of responding to and reporting exceedances or excursions under 40 CFR 64.7 and 64.8. [40 CFR 64.6(c)(2)]
- 9 [40 CFR 64.6(c)(4)]
 Temperature recordkeeping by electronic or hard copy continuously during naphtha loading. [40 CFR 64.6(c)(4)]
- 10 [40 CFR 64.7(a)]
 Conduct the monitoring required under 40 CFR 64 upon issuance of a part 70 or 71 permit that includes such monitoring, or by such later date specified in the permit pursuant to 40 CFR 64.6(d). [40 CFR 64.7(a)]
- 11 [40 CFR 64.7(b)]
 Maintain the monitoring required under 40 CFR 64 at all times, including but not limited to maintaining necessary parts for routine repairs of the monitoring equipment. [40 CFR 64.7(b)]
- 12 [40 CFR 64.7(c)]
 Conduct all monitoring required under 40 CFR 64 in continuous operation (or collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating, except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments). Do not use data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities for purposes of 40 CFR 64, including data averages and calculations, or for fulfilling a minimum data availability requirement, if applicable. Use all the data collected during all other periods in assessing the operation of the control device and associated control system. [40 CFR 64.7(c)]
- 13 [40 CFR 64.7(d)(1)]
 Restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable upon detecting an excursion or exceedance, in accordance with good air pollution control practices for minimizing emissions. Minimize the period of any startup, shutdown or malfunction, and take any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). [40 CFR 64.7(d)(1)]
- 14 [40 CFR 64.7(e)]
 Submit written notification: Due to the Office of Environmental Compliance within 72 hours upon identifying a failure to achieve compliance with the emission standard of LAC 33.III.2108.C.3.b for which, after approval of monitoring under 40 CFR 64, the approved monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing indicator ranges or designated conditions. If necessary, submit a proposed modification to the part 70 or 71 permit to address the necessary monitoring changes. [40 CFR 64.7(e)]

SPECIFIC REQUIREMENTS

AI ID: 3585 - Calcasieu Refining Co - Lake Charles Crude Oil Refinery

Activity Number: PER20090001

Permit Number: 0520-00050-V7

Air - Title V Regular Permit Renewal

CON 0003 MVCU - Marine Vapor Combustion Unit

- 15 [40 CFR 64.9(a)] Submit report: Due on and after the date specified in 40 CFR 64.7(a) by which the owner or operator must use monitoring that meets the requirements of 40 CFR 64. Submit monitoring reports to the DEQ in accordance with 40 CFR 70.6(a)(3)(iii). Include in a report for monitoring under 40 CFR 64, at a minimum, the information required under 40 CFR 70.6(a)(3)(iii) and the information specified in 40 CFR 64.9(a)(2)(i) through (a)(2)(iii), as applicable. [40 CFR 64.9(a)]
- 16 [40 CFR 64.9(b)(1)] Comply with the recordkeeping requirements specified in 40 CFR 70.6(a)(3)(ii). [40 CFR 64.9(b)(1)]
- 17 [40 CFR 64.9(b)(1)] Temperature recordkeeping by electronic or hard copy continuously during naphtha loading. Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)]
- 18 [40 CFR 64.9(b)(1)] Temperature recordkeeping by electronic or hard copy continuously during naphtha loading. Maintain records of monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to 40 CFR 64.8 and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under 40 CFR 64 (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions). Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)]
- 19 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
- 20 [LAC 33:III.1111.C] Which Months: All Year Statistical Basis: None specified
Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
- 21 [LAC 33:III.2108.C.2] Which Months: All Year Statistical Basis: Six-minute average VOC, Total >= 90 % reduction by weight.
- 22 [LAC 33:III.2108.E] Which Months: All Year Statistical Basis: None specified
Determine compliance with LAC 33:III.2108.C.3 using the methods in LAC 33:III.2108.E.1-5, as appropriate.
- 23 [LAC 33:III.2108.F.1] Submit test results: Due to the Office of Environmental Assessment within 45 days of any testing done in accordance with LAC 33:III.2108.E.
- 24 [LAC 33:III.2108.F.2] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2108.F.2.a-e.
- 25 [LAC 33:III.501.C.6] Calcasieu Refining shall institute procedures to enable the facility to identify the root causes of any hydrocarbon flaring incidents and shall implement the necessary actions to minimize the number and duration of any hydrocarbon flaring incidents. In the event the facility experiences emissions from a hydrocarbon flaring in excess of 500 pounds of SO₂ in any 24-hour period, Calcasieu Refining shall investigate the cause of the hydrocarbon flaring incidents and correct the conditions that have caused or contributed to any such hydrocarbon flaring incidents. Consent Decree (Case 2:08-cv-01215-PM-KK, Date of Entry January 7, 2009).

CRG 0001 - Requirements for Heaters/Bottlers

(Group Members: EQT 0016 EOT 0017 EOT 0020)

SPECIFIC REQUIREMENTS

AI ID: 3585 - Calcasieu Refining Co - Lake Charles Crude Oil Refinery
Activity Number: PER20090001
Permit Number: 0520-00050-V7
Air - Title V Regular Permit Renewal

CRG 0001 - Requirements for Heaters/Binders

- 26 [LAC 33:III.1101.B] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel).
 Which Months: All Year Statistical Basis: None specified
- 27 [LAC 33:III.1313.C] Total suspended particulate <= 0.6 lb/MMBTU of heat input.
 Which Months: All Year Statistical Basis: None specified

CRG 0002 - Existing Engines

Group Member: EQT 0007EQT 00008EQT 00009EQT 00060EQT 0060

- 28 [40 CFR 63.6585] Shall comply with all applicable provisions of 40 CFR 63 Subpart ZZZZ.
 Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
 Which Months: All Year Statistical Basis: None specified
- 29 [LAC 33:III.1101.B] Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.
 Which Months: All Year Statistical Basis: Six-minute average
- 30 [LAC 33:III.1311.C] Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

EQT 0015 F-400 - FLARE

- 31 [40 CFR 60.104(a)(1)] Fuel gas: Hydrogen sulfide <= 0.1 gr/dscf (230 mg/dscm). Subpart J. [40 CFR 60.104(a)(1)]
 Which Months: All Year Statistical Basis: Three-hour rolling average
- 32 [40 CFR 60.105(e)(4)] Hydrogen sulfide monitored by continuous emission monitor (CEM) continuously. Monitor the H₂S in fuel gases before being burned in any fuel gas combustion device. Subpart J. [40 CFR 60.105(e)(4)]
- 33 [40 CFR 60.106(a)] Which Months: All Year Statistical Basis: None specified
- 34 [40 CFR 60.106] Use as reference methods and procedures the test methods in 40 CFR 60 appendix A or other methods and procedures as specified in 40 CFR 60.106, except as provided in 40 CFR 60.8(b), in conducting the performance tests required in 40 CFR 60.8. Subpart J. [40 CFR 60.106(a)]
- 35 [40 CFR 60.18(c)(1)] Determine compliance with standards using the test methods and procedures specified in 40 CFR 60.106(a) through (k). Subpart J.
- 36 [40 CFR 60.18(c)(2)] Design and operate for no visible emissions, as determined by the methods specified in 40 CFR 60.18(f), except for periods not to exceed a total of 5 minutes during any two consecutive hours. Subpart A. [40 CFR 60.18(c)(1)]
- 37 [40 CFR 60.18(c)(3)(ii)] Operate with a flame present at all times, as determined by the methods specified in 40 CFR 60.18(f)(2). Subpart A. [40 CFR 60.18(c)(2)]
- 38 [40 CFR 60.18(c)(4)(i)] Heat content >= 300 BTU/scf (11.2 MJ/scm). Determine the net heating value of the gas being combusted by the methods specified in 40 CFR 60.18(f)(3). Subpart A. [40 CFR 60.18(c)(3)(ii)]
- Which Months: All Year Statistical Basis: None specified
- Exit Velocity < 60 ft/sec (18.3 m/sec), as determined by the method specified in 40 CFR 60.18(f)(4). Subpart A. [40 CFR 60.18(c)(4)(i)]
- Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 3585 - Calcasieu Refining Co - Lake Charles Crude Oil Refinery
Activity Number: PER20090001
Permit Number: 0520-00050-V7
Air - Title V Regular Permit Renewal

EQT 0015 F-400 - FLARE

Monitor flares to ensure that they are operated and maintained in conformance with their designs. Applicable subparts will provide provisions stating how to monitor flares. Subpart A. [40 CFR 60.18(d)]

Operate at all times when emissions may be vented to the flare. Subpart A. [40 CFR 60.18(e)]
 Presence of a flame monitored by flame monitor continuously. Use a thermocouple or any other equivalent device to detect the presence of a flare pilot flame. Subpart A. [40 CFR 60.18(f)(2)]
 Which Months: All Year Statistical Basis: None specified
 Opacity <= 20 percent, except for a combined total of six hours in any 10 consecutive day period, for burning in connection with pressure valve releases for control over process upsets.

Which Months: All Year Statistical Basis: None specified

Submit notification. Due to the Office of Environmental Compliance, Emergency and Radiological Services Division, Single Point of Contact (SPOC), as soon as possible after the start of burning of pressure valve releases for control over process upsets. Notify in accordance with LAC 33:1.3923. Notification is required only if the upset cannot be controlled in six hours.
 Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: Six-minute average

Calcasieu Refining shall institute procedures to enable the facility to identify the root causes of any hydrocarbon flaring incidents and shall implement the necessary actions to minimize the number and duration of any hydrocarbon flaring incidents. In the event the facility experiences emissions from a hydrocarbon flaring in excess of 500 pounds of SO2 in any 24-hour period, Calcasieu Refining shall investigate the cause of the hydrocarbon flaring incidents and correct the conditions that have caused or contributed to any such hydrocarbon flaring incidents. Consent Decree (Case 2:08-cv-01215-PM-KK, Date of Entry January 7, 2009).

EQT 0018 H-201 - NO. 6 STABILIZER REBOILER

46 [40 CFR 60.104(a)(1)]

Fuel gas: Hydrogen sulfide <= 0.1 gr/dscf (230 mg/dscm). Subpart J. [40 CFR 60.104(a)(1)]

Which Months: All Year Statistical Basis: Three-hour rolling average

47 [40 CFR 60.105(a)(4)]

Hydrogen sulfide monitored by continuous emission monitor (CEM) continuously. Monitor the 112S in fuel gases before being burned in any fuel gas combustion device. Subpart J. [40 CFR 60.105(a)(4)]

Which Months: All Year Statistical Basis: None specified

Use as reference methods and procedures the test methods in 40 CFR 60 appendix A or other methods and procedures as specified in 40 CFR 60.106, except as provided in 40 CFR 60.8(b), in conducting the performance tests required in 40 CFR 60.8. Subpart J. [40 CFR 60.106(a)]
 Determine compliance with standards using the test methods and procedures specified in 40 CFR 60.106(a) through (k). Subpart J.

48 [40 CFR 60.106(a)]

Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or launcing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: None specified
 Total suspended particulate <= 0.6 lb/MMBTU of heat input.
 Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 3585 - Calcasieu Refining Co - Lake Charles Crude Oil Refinery
Activity Number: PER20090001
Permit Number: 0520-00050-V7
Air - Title V Regular Permit Renewal

EQT 0019 H-204 - CRUDE OIL HEATER

52 [40 CFR 60.104(a)(1)]

Fuel gas: Hydrogen sulfide <= 0.1 gr/dscf (230 mg/dscm). Subpart J. [40 CFR 60.104(a)(1)]
 Which Months: All Year Statistical Basis: Three-hour rolling average

53 [40 CFR 60.105(a)(4)]

Hydrogen sulfide monitored by continuous emission monitor (CEM) continuously. Monitor the H2S in fuel gases before being burned in any fuel gas combustion device. Subpart J. [40 CFR 60.105(a)(4)]

54 [40 CFR 60.106(a)]

Which Months: All Year Statistical Basis: None specified

Use as reference methods and procedures the test methods in 40 CFR 60 appendix A or other methods and procedures as specified in 40 CFR 60.106, except as provided in 40 CFR 60.8(b), in conducting the performance tests required in 40 CFR 60.8. Subpart J. [40 CFR 60.106(a)]

55 [40 CFR 60.106]

Determine compliance with standards using the test methods and procedures specified in 40 CFR 60.106(a) through (k). Subpart J.

Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

57 [LAC 33:III.1101.C]

Which Months: All Year Statistical Basis: None specified

Total suspended particulate <= 0.6 lb/MMBTU of heat input.

58 [LAC 33:III.501.C.6]

Which Months: All Year Statistical Basis: None specified

Heaters and boilers with heat input greater than 40 MM BTU/hr (HHV) shall achieve an interim system-wide weighted average concentration emission limit for NOx of 0.060 lb/MM BTU, to be achieved by December 31, 2008, and a final system-wide weighted average concentration emission limit for NOx of 0.040 lb/MM BTU, by December 31, 2010. Consent Decree (Case 2:08-cv-01215-PM-KK, Date of Entry January 7, 2009).

59 [LAC 33:III.501.C.6]

Shall install or continue to operate a continuous emission monitoring system (CEMS) for NOx, or monitoring NOx emissions with a predictive

EQT 0021 H-501 - NO. 5 CDOU HEATER

60 [40 CFR 60.104(a)(1)]

Fuel gas: Hydrogen sulfide <= 0.1 gr/dscf (230 mg/dscm). Subpart J. [40 CFR 60.104(a)(1)]

61 [40 CFR 60.105(a)(4)]

Hydrogen sulfide monitored by continuous emission monitor (CEM) continuously. Monitor the H2S in fuel gases before being burned in any fuel gas combustion device. Subpart J. [40 CFR 60.105(a)(4)]

62 [40 CFR 60.106(a)]

Which Months: All Year Statistical Basis: None specified

Use as reference methods and procedures the test methods in 40 CFR 60 appendix A or other methods and procedures as specified in 40 CFR 60.106, except as provided in 40 CFR 60.8(b), in conducting the performance tests required in 40 CFR 60.8. Subpart J. [40 CFR 60.106(a)]

63 [40 CFR 60.106]

Determine compliance with standards using the test methods and procedures specified in 40 CFR 60.106(a) through (k). Subpart J.

Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

65 [LAC 33:III.1101.C]

Which Months: All Year Statistical Basis: None specified

Total suspended particulate <= 0.6 lb/MMBTU of heat input.

SPECIFIC REQUIREMENTS

AI ID: 3585 - Calcasieu Refining Co - Lake Charles Crude Oil Refinery

Activity Number: PER20090001

Permit Number: 0520-00050-V7

Air - Title V Regular Permit Renewal

EQT 0021 H-501 - NO. 5 CDOU HEATER

Comply with NSPS Subpart J.

Heaters and boilers with heat input greater than 40 MM BTU/hr (HHV) shall achieve an interim system-wide weighted average concentration emission limit for NOx of 0.060 lb/MM BTU, to be achieved by December 31, 2008, and a final system-wide weighted average concentration emission limit for NOx of 0.040 lb/MM BTU, by December 31, 2010. Consent Decree (Case 2:08-cv-01215-PM-KK, Date of Entry January 7, 2009).

66 [LAC 33:III.1503.C] Shall install or continue to operate a continuous emission monitoring system (CEMS) for NOx. Consent Decree (Case 2:08-cv-01215-PM-KK, Date of Entry January 7, 2009).

EQT 0024 MD-200 - MARINE DOCKS (HAYMARK DOCK, BARGE LOADING)

Equip with a vapor collection system designed to collect the organic compounds vapors displaced from ships and/or barges during loading.

VOC, Total >= 90 % reduction by weight by collecting and processing the vapors with a recovery and/or destruction system.

Which Months: All Year Statistical Basis: None specified

Barge loading of crude oil or other VOCs: 'Total Organic Compounds (TOC) <= 30 mg/l of VOC loaded (0.25 lb/1000 gal)'.

Which Months: All Year Statistical Basis: None specified

Load only into ships and/or barges equipped with vapor collection equipment that is compatible with the affected facility's vapor collection system.

Properly connect the vapor collection and disposal system to the ships and/or barges before any loading is done.

Comply with the requirements of LAC 33:III.2108 as soon as practicable, but in no event later than one year from the promulgation of the regulation revision, if subject to LAC 33:III.2108 as a result of a revision of LAC 33:III.2108.

Determine compliance with LAC 33:III.2108.E.1-5, as appropriate.

Submit test results: Due to the Office of Environmental Assessment, Air Quality Assessment Division, within 45 days of any testing done in accordance with LAC 33:III.2108.E.

Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2108.F.2.a-e, as applicable.

Loading gasoline, crude oil or other VOCs into ships or barges is prohibited unless all loading and vapor lines, arms and hoses are equipped with fittings which make vapor-tight connections and provide tight shut-off when disconnected.

Prevent spills or leaks during attachment or disconnection of filling lines, hoses or arms. Do not spill liquids or handle in any other manner that would result in evaporation to the atmosphere.

Maintain all equipment associated with the loading of gasoline, crude oil or other VOC into ships or barges to be leak-free, gas-tight and in good working order.

EQT 0027 TK-300 - CRUDE OIL STORAGE TANK

Seal gap area <= 10.0 in^2/ft (212 sq cm/meter) of tank diameter for the accumulated area of gaps between the tank wall and the mechanical shoe seal or liquid-mounted primary seal. Subpart K. [40 CFR 60.112(a)(1)(i)(A)]

Which Months: All Year Statistical Basis: None specified

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Activity Number: PER20090001
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EQT 0027 TK-300 - CRUDE OIL STORAGE TANK

- 82 [40 CFR 60.112(a)(1)(i)(A)] Seal gap width \leq 1.5 in (3.81 cm) for the width of any portion of any gap between the tank wall and the mechanical shoe seal or liquid-mounted primary seal. Subpart Ka. [40 CFR 60.112(a)(1)(i)(A)]
 Which Months: All Year Statistical Basis: None specified
 There are to be no holes, tears, or other openings in the shoe, primary seal fabric, or seal envelope. Subpart Ka. [40 CFR 60.112(a)(1)(i)(D)]
- 83 [40 CFR 60.112(a)(1)(i)(D)] The primary seal is to be either a metallic shoe seal, a liquid-mounted seal, or a vapor-mounted seal. Subpart Ka. [40 CFR 60.112(a)(1)(i)]
- 84 [40 CFR 60.112(a)(1)(i)] Install the secondary seal above the primary seal so that it completely covers the space between the roof edge and the tank wall except as provided in 40 CFR 60.112(a)(1)(ii)(B). Subpart Ka. [40 CFR 60.112(a)(1)(i)(A)]
- 85 [40 CFR 60.112(a)(1)(ii)(A)] Seal gap area \leq 1.0 in²/ft (21.2 sq cm/meter) of tank diameter for the accumulated area of gaps between the tank wall and the secondary seal used in combination with a metallic shoe or liquid-mounted primary seal. Subpart Ka. [40 CFR 60.112(a)(1)(i)(B)]
 Which Months: All Year Statistical Basis: None specified
 Seal gap width \leq 0.5 in (1.27 cm) for the width of any portion of any gap between the tank wall and the secondary seal used in combination with a metallic shoe or liquid-mounted primary seal. Subpart Ka. [40 CFR 60.112(a)(1)(i)(B)]
- 86 [40 CFR 60.112(a)(1)(ii)(B)] Which Months: All Year Statistical Basis: None specified
 There are to be no holes, tears or other openings in the secondary seal or seal fabric. Subpart Ka. [40 CFR 60.112(a)(1)(i)(C)]
- 87 [40 CFR 60.112(a)(1)(ii)(B)] Each opening in the roof except for automatic bleeder vents and rim space vents is to provide a projection below the liquid surface. Equip each opening in the roof except for automatic bleeder vents, rim space vents and leg sleeves with a cover, seal or lid and maintain in a closed position at all times (i.e., no visible gap) except when the device is in actual use or as described in 40 CFR 60.112(a)(1)(iv). Close automatic bleeder vents at all times when the roof is floating, except when the roof is being floated off or is being landed on the roof leg supports. Set rim vents to open when the roof is being floated off the roof leg supports or at the manufacturer's recommended setting. Subpart Ka. [40 CFR 60.112(a)(1)(ii)(B)]
- 88 [40 CFR 60.112(a)(1)(ii)(C)] Provide each emergency roof drain with a slotted membrane fabric cover that covers at least 90 percent of the area of the opening. Subpart Ka.
 [40 CFR 60.112(a)(1)(iv)]
- 89 [40 CFR 60.112(a)(1)(iii)] Equip with an external floating roof consisting of a pontoon-type or double-deck-type cover that rests on the surface of the liquid contents and is equipped with a closure device between the tank wall and the roof edge. Except as provided in 40 CFR 60.112(a)(1)(ii)(D), the closure device is to consist of two seals, one (secondary) above the other (primary). The roof is to be floating on the liquid at all times (i.e., off the roof leg supports) except during initial fill and when the tank is completely emptied and subsequently refilled. The process of emptying and refilling when the roof is resting on the leg supports shall be continuous and shall be accomplished as rapidly as possible. Subpart Ka. [40 CFR 60.112(a)(1)(iii)]
- 90 [40 CFR 60.112(a)(1)(iv)] Seal gap area & width monitored by measurement at the regulation's specified frequency. Determine the gap areas and maximum gap widths between the primary seal and the tank wall within 60 days of the initial fill with petroleum liquid and at least once every 5 years thereafter using the procedures in 40 CFR 60.113(a)(1)(ii). Accomplish all primary seal inspections or gap measurements which require the removal or dislodging of the secondary seal as rapidly as possible and replace the secondary seal as soon as possible. Subpart Ka. [40 CFR 60.113(a)(1)(i)(A)]
 Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 3585 - Calcasieu Refining Co - Lake Charles Crude Oil Refinery

Activity Number: PER20090001

Permit Number: 0520-000050-V7

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EQT 0027 TK-300 - CRUDE OIL STORAGE TANK

- 93 [40 CFR 60.113(a)(1)(i)(B)] Seal gap area & width monitored by measurement at the regulation's specified frequency. Determine the gap areas and maximum gap widths between the secondary seal and the tank wall within 60 days of the initial fill with petroleum liquid and at least once every year thereafter using the procedures in 40 CFR 60.113(a)(1)(ii). Subpart Ka. [40 CFR 60.113(a)(1)(i)(B)]
- Which Months: All Year Statistical Basis: None specified
- Gap measurements(s) recordkeeping by electronic or hard copy upon each occurrence of gap measurement performance. Each record shall identify the vessel on which the measurement was performed and shall contain the date of the seal gap measurement, the raw data obtained in the measurement process required by 40 CFR 60.113(a)(1)(ii) and the calculation required by 40 CFR 60.113(a)(1)(iii). Keep records of each gap measurement at the plant for a period of at least 2 years following the date of measurement. Subpart Ka. [40 CFR 60.113(a)(1)(i)(D)]
- gap measurement report. Due to DEQ within 60 days of the date of seal gap measurements, if either the seal gap calculated in accord with 40 CFR 60.113(a)(1)(iii) or the measured maximum seal gap exceeds the limitations specified by 40 CFR 60.112a. The report shall identify the vessel and list each reason why the vessel did not meet the specifications of 40 CFR 60.112a. The report shall also describe the actions necessary to bring the storage vessel into compliance with the specifications of 40 CFR 60.112a. Subpart Ka. [40 CFR 60.113(a)(1)(i)(E)]
- Submit notification: Due to DEQ at least 30 days prior to the gap measurement to afford DEQ to have an observer present. Subpart Ka. [40 CFR 60.113(a)(1)(iv)]
- Petroleum liquid storage data recordkeeping by electronic or hard copy at the approved frequency. Maintain a record of the petroleum liquid stored, the period of storage, and the maximum true vapor pressure of that liquid during the respective storage period, except as provided in 40 CFR 60.113(a)(d). Subpart Ka.
- Equip with a submerged fill pipe.
- Seal closure devices required in LAC 33.III.2103.D shall have no visible holes, tears, or other openings in the seals or seal fabric.
- Seal closure devices required in LAC 33.III.2103.D shall be intact and uniformly in place around the circumference of the floating roof and the tank wall.
- Seal gap area <= 1 in²/ft of tank diameter (6.5 cm²/0.3 m), for gaps between the secondary seal and tank wall that exceed 1/8 inch (0.32 cm) in width.
- Which Months: All Year Statistical Basis: None specified
- Seal gap area <= 10 in²/ft of tank diameter (65 cm²/0.3 m), for gaps between the primary seal and tank wall that exceed 1/8 inch (0.32 cm) in width.
- Which Months: All Year Statistical Basis: None specified
- Secondary Seal or closure mechanism monitored by visual inspection/determination semiannually.
- Which Months: All Year Statistical Basis: None specified
- Secondary seals: Seal gap area & width monitored by measurement annually at any tank level, provided the roof is off its legs.
- Which Months: All Year Statistical Basis: None specified
- Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Keep records of conditions that are not up to the standards described in LAC 33.III.2103.D.2, and the date(s) that the standards are not met. Notify the administrative authority within seven days of noncompliance with LAC 33.III.2103.D.2.
- Primary seals: Seal gap area & width monitored by measurement once every five years at any tank level, provided the roof is off its legs.
- Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 3585 - Calcasieu Refining Co - Lake Charles Crude Oil Refinery
Activity Number: PER20090001
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EQT 0027 TK-300 - CRUDE OIL STORAGE TANK

- Initiate repairs of seals within seven working days of recognition of defective conditions by ordering appropriate parts, to avoid noncompliance with LAC 33:III.2103. Complete repairs within three months of the ordering of the repair parts.
- Equip all covers, seals, lids, automatic bleeder vents and rim space vents with gaskets.
- Provide all openings in the external floating roof (except for automatic bleeder vents, rim space vent, and leg sleeves) with a projection below the liquid surface. Equip each opening in the roof (except for automatic bleeder vents, rim space vents, roof drains, and leg sleeves) with a cover, seal or lid that is to be maintained in a closed position at all times except when the device is in actual use. Keep automatic bleeder vents closed at all times except when the roof is being floated off the roof leg supports. Set rim vents to open when the roof is being floated off the roof leg supports or at the manufacturer's recommended setting. Equip any emergency roof drain with a slotted membrane fabric cover or equivalent cover that covers at least 90 percent of the opening.
- Control nonslotted guide poles and stilling wells using pole wipers and gasketing between the well and sliding cover. Control slotted guide poles using a float with wiper, pole wiper, and gasketing between the well and sliding cover.
- Submit notification: Due to the Office of Environmental Assessment, Air Quality Assessment Division, prior to installation of guide poles and stilling well systems. Submit a description of the method of control and supporting calculations based upon the Addendum to American Petroleum Institute Publication Number 2517 Evaporative Loss from External Floating Roof Tanks, May 1994, for approval.
- Initiate repairs of any rips, tears, visible gaps in the pole or float wiper, and/or missing sliding cover gaskets by ordering appropriate parts within seven working days after defect is identified, to avoid noncompliance with LAC 33:III.2103.D.4. Complete repairs within three months of the ordering of the repair parts.
- Equipment/operational data monitored by visual inspection/determination semiannually. Inspect control systems required by LAC 33:III.2103.D.4 for rips, tears, visible gaps in the pole or float wiper, and/or missing sliding cover gaskets.
- Which Months: All Year Statistical Basis: None specified
- Equip with an external floating roof consisting of a pontoon type roof, or external floating cover which will rest or float on the surface of the liquid contents and is equipped with a primary closure seal to close the space between the roof edge and tank wall and a continuous secondary seal (a rim mounted secondary) extending from the floating roof to the tank wall.
- Equip external floating roof with a primary closure seal, consisting of a liquid mounted seal or a mechanical shoe seal, as defined in LAC 33:III.2103.C.1.a and b.
- Determine compliance with LAC 33:III.2103.D.2 and 4 using the methods in LAC 33:III.2103.H.1.
- Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-c.
- Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.

EQT 0029 TK-302 - MINERAL SPIRITS STORAGE TANK

- Equip with a floating roof, a vapor recovery system, or their equivalents. Subpart K. [40 CFR 60.112(a)(1)]
- Petroleum liquid storage data recordkeeping by electronic or hard copy at the approved frequency. Maintain a record of the petroleum liquid stored, the period of storage, and the maximum true vapor pressure of that liquid during the respective storage period, except as provided in 40 CFR 60.113(d). Subpart K.

SPECIFIC REQUIREMENTS

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EQT 0029 TK-302 - MINERAL SPIRITS STORAGE TANK

121 [LAC 33:III.2|03.B]

122 [LAC 33:III.2|03.C.1.a]

123 [LAC 33:III.2|03.C.1.b]

124 [LAC 33:III.2|03.C.1.c]

125 [LAC 33:III.2|03.C.2]

- Equip with a submerged fill pipe.
- Equip internal floating roof with a liquid mounted seal consisting of a foam- or liquid-filled seal mounted in contact with the liquid between the wall of the storage vessel and the floating roof continuously around the circumference of the tank.
- Equip internal floating roof with a mechanical shoe seal (metallic-type shoe seal) consisting of a metal sheet held vertically against the wall of the storage vessel by springs or weighted levers and connected by braces to the floating roof. A flexible coated fabric (envelope) spans the annular space between the metal sheet and the floating roof.
- Equip internal floating roof with two seals mounted one above the other so that each forms a continuous closure that completely covers the space between the wall of the storage vessel and the edge of the internal floating roof. The lower seal may be vapor-mounted, but both must be continuous.

126 [LAC 33:III.2|03.C]

- Provide each opening in the internal floating roof (except rim space vents and automatic bleeder vents) with a projection below the liquid surface. In addition, provide each opening (except for leg sleeves, bleeder vents, rim space vents, column wells, ladder wells, sample wells, and stub drains) with a cover equipped with a gasket. Equip automatic bleeder vents and rim space vents with gaskets and equip ladder wells with a sliding cover.

127 [LAC 33:III.2|03.H.3]

- Equip with an internal floating roof consisting of a pontoon type roof, double deck roof, or internal floating cover which will rest or float on the surface of the liquid contents and is equipped with a closure seal to close the space between the roof edge and tank wall. All tank gauging and sampling devices will be gas-tight except when gauging or sampling is taking place.
- Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2|03.H.3.a-e.

- Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2|03.I.1 - 7, as applicable.

EQT 0036 TK-309 - STORM WATER/WASTEWATER STORAGE TANK

129 [40 CFR 60.112a(a)(3)]

- Equip with a vapor recovery system which collects all VOC vapors and gases discharged from the storage vessel and a vapor return or disposal system to process such VOC vapors and gases. Subpart Ka [40 CFR 60.112a(a)(3)] VOC, Total \geq 95 % reduction by weight for VOC vapors and gases processed by the vapor recovery system and vapor return or disposal system. Subpart Ka [40 CFR 60.112a(a)(3)]

- Which Months: All Year Statistical Basis: None specified Petroleum liquid storage data recordkeeping by electronic or hard copy at the approved frequency. Maintain a record of the petroleum liquid stored, the period of storage, and the maximum true vapor pressure of that liquid during the respective storage period, except as provided in 40 CFR 60.115(a). Subpart Ka.
- Equip with a submerged fill pipe.
- VOC, Total \geq 95 % control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year.

- Which Months: All Year Statistical Basis: None specified

- Equip with a vapor loss control system, consisting of a gathering system capable of collecting volatile organic compound vapors and a vapor disposal system capable of processing such organic vapors. All tank gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place.

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EQT 0036 TK-309 - STORM WATER/WASTEWATER STORAGE TANK

- 135 [LAC 33:III.2103.H.3]
136 [LAC 33:III.2103.I]

Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e.
Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.

EQT 0037 TK-310 - WASTEWATER STORAGE TANK

- 137 [40 CFR 60.1126(a)(1)(i)]

Equip with a fixed roof in combination with an internal floating roof. The internal floating roof shall rest or float on the liquid surface (but not necessarily in complete contact with it) inside a storage vessel that has a fixed roof. The internal floating roof shall be floating on the liquid surface at all times, except during initial fill and during those intervals when the storage vessel is completely emptied or subsequently emptied and refilled. When the roof is resting on the leg supports, the process of filling, emptying, or refilling shall be continuous and shall be accomplished as rapidly as possible. Subpart Kb. [40 CFR 60.1126(b)(1)(i)]

Equip internal floating roof with a liquid mounted seal consisting of a foam- or liquid-filled seal mounted in contact with the liquid between the wall of the storage vessel and the floating roof continuously around the circumference of the tank. Subpart Kb. [40 CFR 60.1126(b)(1)(ii)(A)]

Equip internal floating roof with two seals mounted secondary above the primary so that each forms a continuous closure that completely covers the space between the wall of the storage vessel and the edge of the internal floating roof. The primary seal may be vapor-mounted, but both must be continuous. Subpart Kb. [40 CFR 60.1126(b)(1)(ii)(B)]

Equip internal floating roof with a mechanical shoe seal consisting of a metal sheet held vertically against the wall of the storage vessel by springs or weighted levers and connected by braces to the floating roof. A flexible coated fabric (envelope) spans the annular space between the metal sheet and the floating roof. Subpart Kb. [40 CFR 60.1126(b)(1)(ii)(C)]

Each opening in a noncontact internal floating roof, except for automatic bleeder vents (vacuum breaker vents) and the rim space vents is to provide a projection below the liquid surface. Equip each opening in the internal floating roof except for leg sleeves, automatic bleeder vents, rim space vents, column wells, ladder wells, sample wells, and stub drains with a cover or lid and maintain in a closed position at all times (i.e., no visible gap) except when the device is in actual use. Equip the cover or lid with a gasket. Bolt covers on each access hatch and automatic gauge float well except when they are in use. Equip automatic bleeder vents with a gasket and close at all times when the roof is floating except when the roof is being floated off or is being landed on the roof leg supports. Equip rim space vents with a gasket and set to open only when the internal floating roof is not floating or at the manufacturer's recommended setting. Each penetration of the internal floating roof for the purpose of sampling shall be a sample well. The sample well shall have a slit fabric cover that covers at least 90 percent of the opening. Each penetration of the internal floating roof that allows for passage of a column supporting the fixed roof shall have a flexible fabric sleeve seal or a gasketed sliding cover. Each penetration of the internal floating roof that allows for passage of a ladder shall have a gasketed sliding cover. Subpart Kb. [40 CFR 60.1126(b)(1)(ii)]

Tank roof and seals monitored by visual inspection/determination at the regulation's specified frequency. Inspect the internal floating roof, the primary seal, and the secondary seal (if one is in service), prior to filling the storage vessel with VOL. If there are holes, tears, or other openings in the primary seal, the secondary seal, or the seal fabric or defects in the internal floating roof, or both, repair the items before filling the storage vessel. Subpart Kb. [40 CFR 60.113(b)(1)(ii)]

Which Months: All Year Statistical Basis: None specified

- 142 [40 CFR 60.1136(a)(1)]

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AI ID: 3585 - Calcasieu Refining Co - Lake Charles Crude Oil Refinery
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EQT 0037 TK-310 - WASTEWATER STORAGE TANK

- 143 [40 CFR 60.113(b)(a)(2)] Tank roof and seals monitored by visual inspection/determination annually. Inspect the internal floating roof and the primary seal or the secondary seal (if one is in service) through manholes and roof hatches on the fixed roof at least once every 12 months after initial fill. If a failure is detected during inspections required in this paragraph initiate repair provisions. Subpart Kb. [40 CFR 60.113b(a)(2)]
- Which Months: All Year Statistical Basis: None specified
- If the internal floating roof is not resting on the surface of the VOL inside the storage vessel, or there is liquid accumulated on the roof, or the seal is detached, or there are holes or tears in the seal fabric, repair the items or empty and remove the storage vessel from service within 45 days.
- If a failure that is detected during inspections required in this paragraph cannot be repaired within 45 days and if the vessel cannot be emptied within 45 days, request a 30-day extension from DEQ in the inspection report required in 40 CFR 60.115b(a)(3). Document in the request for extension that alternate storage capacity is unavailable and specify a schedule of actions the company will take that will assure that the control equipment will be repaired or the vessel will be emptied as soon as possible. Subpart Kb. [40 CFR 60.113b(a)(2)]
- Tank roof and seals monitored by visual inspection/determination once every five years as specified in 40 CFR 60.113b(a)(4). Subpart Kb. [40 CFR 60.113b(a)(3)(i)]
- Which Months: All Year Statistical Basis: None specified
- Tank roof and seals monitored by visual inspection/determination at the regulation's specified frequency. Inspect the internal floating roof, the primary seal, the secondary seal (if one is in service), gaskets, slotted membranes and sleeve seals (if any) each time the storage vessel is emptied and degassed. If a failure is detected during inspections required in this paragraph initiate repair provisions. Subpart Kb. [40 CFR 60.113b(a)(3)(i)]
- 60.113b(a)(4)]
- Which Months: All Year Statistical Basis: None specified
- If the internal floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric, or the secondary seal has holes, tears, or other openings in the seal or the seal fabric, or the gaskets no longer close off the liquid surfaces from the atmosphere, or the slotted membrane has more than 10 percent open area, repair the items as necessary so that none of the conditions specified in this paragraph exist before refilling the storage vessel with VOL. In no event shall inspections conducted in accordance with this provision occur at intervals greater than 10 years in the case of vessels conducting the annual visual inspection as specified in 40 CFR 60.113b(a)(2) and (a)(3)(ii) and at intervals no greater than 5 years in the case of vessels specified in paragraph 40 CFR 60.113b(a)(3)(i) of this section. Subpart Kb. [40 CFR 60.113b(a)(4)]
- 60.113b(a)(4)]
- Submit notification in writing: Due at least 30 days prior to the filling or refilling of each storage vessel for which an inspection is required by 40 CFR 60.113b(a)(1) and (a)(4) to afford DEQ an opportunity to have an observer present. If the inspection required by paragraph 40 CFR 60.113b(a)(4) is not planned and the owner or operator could not have known about the inspection 30 days in advance or refilling the tank, notify DEQ at least 7 days prior to the refilling of the storage vessel. Notify by telephone immediately followed by written documentation demonstrating why the inspection was unplanned. Alternatively, submit notification in writing including the written documentation and send by express mail so that it is received by DEQ at least 7 days prior to the refilling. Subpart Kb. [40 CFR 60.113b(a)(5)]
- Submit a report: Due to DEQ as an attachment to the notification required by 40 CFR 60.7(a)(3). This report shall describe the control equipment and certify that the control equipment meets the specifications of 40 CFR 60.112b(a)(1) and 60.113b(a)(1). Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(a)(1)]

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EQT 0037 TK-310 - WASTEWATER STORAGE TANK

- 150 [40 CFR 60.115(a)(2)] Inspection records recordkeeping by electronic or hard copy upon each occurrence of inspection, per 40 CFR 60.113(b)(a)(1) through (4). Each record shall identify the storage vessel on which the inspection was performed and shall contain the date the vessel was inspected and the observed condition of each component of the control equipment (seals, internal floating roof, and fittings). Keep copies of all records for at least two years. Subpart Kb. [40 CFR 60.115b(a)(2)]
- 151 [40 CFR 60.115b(a)(3)] Submit a report: Due to DEQ within 30 days of the annual visual inspection required by 40 CFR 60.113b(a)(2) that detects any of the conditions described in 40 CFR 60.113b(a)(2). Each report shall identify the storage vessel, the nature of the defects, and the date the storage vessel was emptied or the nature of and date the repair was made. Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(a)(3)]
- 152 [40 CFR 60.115b(a)(4)] Submit a report: Due to DEQ within 30 days of each inspection required by 40 CFR 60.113b(a)(3) that finds holes or tears in the seal or seal fabric, or defects in the internal floating roof, or other control equipment defects listed in 40 CFR 60.113b(a)(3)(ii). The report shall identify the storage vessel and the reason it did not meet the specifications of 40 CFR 61.112b(a)(1) or 40 CFR. 60.113b(a)(3) and list each repair made. Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(a)(4)]
- 153 [40 CFR 60.116(a)(b)] Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel. Keep copies of all records for the life of the source as specified by 40 CFR 60.116b(a). Subpart Kb. [40 CFR 60.116b(b)]
- 154 [40 CFR 60.116(c)] VOL storage data recordkeeping by electronic or hard copy at the approved frequency. Records consist of the VOL stored, the period of storage, and the maximum true vapor pressure of that VOL during the respective storage period. Keep copies of all records for at least two years. Subpart Kb. [40 CFR 60.116b(c)]
- 155 [40 CFR 60.116(d)] Submit notification: Due within 30 days when the maximum true vapor pressure of the liquid exceeds the respective maximum true vapor pressure values for each volume range. Subpart Kb. [40 CFR 60.116b(d)]
- 156 [LAC 33:III.2103.B] Equip with a submerged fill pipe.
- 157 [LAC 33:III.2103.C.1.a] Equip internal floating roof with a liquid mounted seal consisting of a foam- or liquid-filled seal mounted in contact with the liquid between the wall of the storage vessel and the floating roof continuously around the circumference of the tank.
- 158 [LAC 33:III.2103.C.1.b] Equip internal floating roof with a mechanical shoe seal (metallic-type shoe seal) consisting of a metal sheet held vertically against the wall of the storage vessel by springs or weighted levers and connected by braces to the floating roof. A flexible coated fabric (envelope) spans the annular space between the metal sheet and the floating roof.
- 159 [LAC 33:III.2103.C.1.c] Equip internal floating roof with two seals mounted one above the other so that each forms a continuous closure that completely covers the space between the wall of the storage vessel and the edge of the internal floating roof. The lower seal may be vapor-mounted, but both must be continuous.
- 160 [LAC 33:III.2103.C.2] Provide each opening in the internal floating roof (except rim space vents and automatic bleeder vents) with a projection below the liquid surface. In addition, provide each opening (except for leg sleeves, bleeder vents, rim space vents, column wells, ladder wells, sample wells, and stub drains) with a cover equipped with a gasket. Equip automatic bleeder vents and rim space vents with gaskets and equip ladder wells with a sliding cover.
- 161 [LAC 33:III.2103.C] Equip with an internal floating roof consisting of a pontoon type roof, double deck roof, or internal floating cover which will rest or float on the surface of the liquid contents and is equipped with a closure seal to close the space between the roof edge and tank wall. All tank gauging and sampling devices will be gas-tight except when gauging or sampling is taking place.
- 162 [LAC 33:III.2103.H.3.a-e.] Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e.

SPECIFIC REQUIREMENTS

AI ID: 3585 - Calcasieu Refining Co - Lake Charles Crude Oil Refinery

Activity Number: PER20090001

Permit Number: 0520-00050-V7

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EQT 0037 TK-310 - WASTEWATER STORAGE TANK

163 [LAC 33:III.2103.1]

Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.1.1 - 7, as applicable.

EQT 0038 TK-311 - CRUDE OIL STORAGE TANK

164 [40 CFR 60.112(a)(1)(i)(A)]

Seal gap width <= 1.5 in (3.81 cm) for the width of any portion of any gap between the tank wall and the mechanical shoe seal or liquid-mounted primary seal. Subpart Ka. [40 CFR 60.112(a)(1)(i)(A)]

Which Months: All Year Statistical Basis: None specified

Seal gap area <= 10.0 in²/ft (21.2 sq cm/meter) of tank diameter for the accumulated area of gaps between the tank wall and the mechanical shoe seal or liquid-mounted primary seal. Subpart Ka. [40 CFR 60.112(a)(1)(i)(A)]

Which Months: All Year Statistical Basis: None specified

There are to be no holes, tears, or other openings in the shoe, primary seal fabric, or seal envelope. Subpart Ka. [40 CFR 60.112(a)(1)(i)(D)]

The primary seal is to be either a metallic shoe seal, a liquid-mounted seal, or a vapor-mounted seal. Subpart Ka. [40 CFR 60.112(a)(1)(i)]

Install the secondary seal above the primary seal so that it completely covers the space between the roof edge and the tank wall except as provided in 40 CFR 60.112(a)(1)(ii)(B). Subpart Ka. [40 CFR 60.112(a)(1)(ii)(A)]

Seal gap area <= 1.0 in²/ft (21.2 sq cm/meter) of tank diameter for the accumulated area of gaps between the tank wall and the secondary seal used in combination with a metallic shoe or liquid-mounted primary seal. Subpart Ka. [40 CFR 60.112(a)(1)(ii)(B)]

Which Months: All Year Statistical Basis: None specified

Seal gap width <= 0.5 in (1.27 cm) for the width of any portion of any gap between the tank wall and the secondary seal used in combination with a metallic shoe or liquid-mounted primary seal. Subpart Ka. [40 CFR 60.112(a)(1)(ii)(B)]

Which Months: All Year Statistical Basis: None specified

There are to be no holes, tears or other openings in the secondary seal or seal fabric. Subpart Ka. [40 CFR 60.112(a)(1)(ii)(C)]

Each opening in the roof except for automatic bleeder vents and rim space vents is to provide a projection below the liquid surface. Equip each opening in the roof except for automatic bleeder vents, rim space vents and leg sleeves with a cover, seal or lid and maintain in a closed position at all times (i.e., no visible gap) except when the device is in actual use or as described in 40 CFR 60.112(a)(1)(iv). Close automatic bleeder vents at all times when the roof is floating, except when the roof is being floated off or is being landed on the roof leg supports. Set rim vents to open when the roof is being floated off the roof leg supports or at the manufacturer's recommended setting. Subpart Ka. [40 CFR 60.112(a)(1)(iii)]

Provide each emergency roof drain with a slotted membrane fabric cover that covers at least 90 percent of the area of the opening. Subpart Ka. [40 CFR 60.112(a)(1)(iv)]

Equip with an external floating roof consisting of a pontoon-type or double-deck-type cover that rests on the surface of the liquid contents and is equipped with a closure device between the tank wall and the roof edge. Except as provided in 40 CFR 60.112(a)(1)(iv)(D), the closure device is to consist of two seals, one (secondary) above the other (primary). The roof is to be floating on the liquid at all times (i.e., off the roof leg supports) except during initial fill and when the tank is completely emptied and subsequently refilled. The process of emptying and refilling when the roof is resting on the leg supports shall be continuous and shall be accomplished as rapidly as possible. Subpart Ka. [40 CFR 60.112(a)(1)]

EQT 0037 TK-310 - WASTEWATER STORAGE TANK

171 [40 CFR 60.112(a)(1)(ii)(C)]

172 [40 CFR 60.112(a)(1)(iii)]

173 [40 CFR 60.112(a)(1)(iv)]

Provide each emergency roof drain with a slotted membrane fabric cover that covers at least 90 percent of the area of the opening. Subpart Ka. [40 CFR 60.112(a)(1)(iv)]

Equip with an external floating roof consisting of a pontoon-type or double-deck-type cover that rests on the surface of the liquid contents and is equipped with a closure device between the tank wall and the roof edge. Except as provided in 40 CFR 60.112(a)(1)(iv)(D), the closure device

is to consist of two seals, one (secondary) above the other (primary). The roof is to be floating on the liquid at all times (i.e., off the roof leg supports) except during initial fill and when the tank is completely emptied and subsequently refilled. The process of emptying and refilling

when the roof is resting on the leg supports shall be continuous and shall be accomplished as rapidly as possible. Subpart Ka. [40 CFR 60.112(a)(1)]

SPECIFIC REQUIREMENTS

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EQT 0038 TK-311 - CRUDE OIL STORAGE TANK

Seal gap area & width monitored by measurement at the regulation's specified frequency. Determine the gap areas and maximum gap widths between the primary seal and the tank wall within 60 days of the initial fill with petroleum liquid and at least once every 5 years thereafter using the procedures in 40 CFR 60.113(a)(1)(ii). Accomplish all primary seal inspections or gap measurements which require the removal or dislodging of the secondary seal as rapidly as possible and replace the secondary seal as soon as possible. Subpart Ka. [40 CFR 60.113(a)(1)(i)(A)]

Which Months: All Year Statistical Basis: None specified
 Seal gap area & width monitored by measurement at the regulation's specified frequency. Determine the gap areas and maximum gap widths between the secondary seal and the tank wall within 60 days of the initial fill with petroleum liquid and at least once every year thereafter using the procedures in 40 CFR 60.113(a)(1)(ii). Subpart Ka. [40 CFR 60.113(a)(1)(i)(B)]

Which Months: All Year Statistical Basis: None specified
 Gap measurement(s) recordkeeping by electronic or hard copy upon each occurrence of gap measurement performance. Each record shall identify the vessel on which the measurement was performed and shall contain the date of the seal gap measurement, the raw data obtained in the measurement process required by 40 CFR 60.113(a)(1)(ii) and the calculation required by 40 CFR 60.113(a)(1)(iii). Keep records of each gap measurement at the plant for a period of at least 2 years following the date of measurement. Subpart Ka. [40 CFR 60.113(a)(1)(i)(D)]
 Submit report: Due to DEQ within 60 days of the date of seal gap measurements, if either the seal gap calculated in accord with 40 CFR 60.113(a)(1)(i)(iii) or the measured maximum seal gap exceeds the limitations specified by 40 CFR 60.112a. The report shall identify the vessel and list each reason why the vessel did not meet the specifications of 40 CFR 60.112a. The report shall also describe the actions necessary to bring the storage vessel into compliance with the specifications of 40 CFR 60.112a. Subpart Ka. [40 CFR 60.113(a)(1)(i)(E)]
 Submit notification: Due to DEQ at least 30 days prior to the gap measurement to afford DEQ to have an observer present. Subpart Ka. [40 CFR 60.113(a)(1)(i)(F)]
 Petroleum liquid storage data recordkeeping by electronic or hard copy at the approved frequency. Maintain a record of the petroleum liquid stored, the period of storage, and the maximum true vapor pressure of that liquid during the respective storage period, except as provided in 40 CFR 60.115(a)(d). Subpart Ka.
 Equip with a submerged fill pipe.
 Seal closure devices required in LAC 33:III.2103.D shall have no visible holes, tears, or other openings in the seals or seal fabric.
 Seal closure devices required in LAC 33:III.2103.D shall be intact and uniformly in place around the circumference of the floating roof and the tank wall.
 Seal gap area <= 1 in^2/2 ft of tank diameter (6.5 cm^2/0.3 m), for gaps between the secondary seal and tank wall that exceed 1/8 inch (0.32 cm) in width.
 Which Months: All Year Statistical Basis: None specified
 Seal gap area <= 10 in^2/2 ft of tank diameter (65 cm^2/0.3 m), for gaps between the primary seal and tank wall that exceed 1/8 inch (0.32 cm) in width.
 Which Months: All Year Statistical Basis: None specified
 Initiate repairs of seals within seven working days of recognition of defective conditions by ordering appropriate parts, to avoid noncompliance with LAC 33:III.2103. Complete repairs within three months of the ordering of the repair parts.
 Secondary Seal or closure mechanism monitored by visual inspection/determination semiannually.
 Which Months: All Year Statistical Basis: None specified

175 [40 CFR 60.113(a)(1)(i)(A)]

176 [40 CFR 60.113(a)(1)(i)(B)]

177 [40 CFR 60.113(a)(1)(i)(D)]

178 [40 CFR 60.113(a)(1)(i)(E)]

179 [40 CFR 60.113(a)(1)(iv)]

180 [40 CFR 60.115a]

181 [LAC 33:III.2103.B]

182 [LAC 33:III.2103.D.2.a]

183 [LAC 33:III.2103.D.2.b]

184 [LAC 33:III.2103.D.2.c]

185 [LAC 33:III.2103.D.2.d]

186 [LAC 33:III.2103.D.2.e]

187 [LAC 33:III.2103.D.2.e]

SPECIFIC REQUIREMENTS

AI ID: 3585 - Calcasieu Refining Co - Lake Charles Crude Oil Refinery
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EQT 0038 TK-311 - CRUDE OIL STORAGE TANK

- 188 [LAC 33:III.2|03.D.2.e] Primary seals: Seal gap area & width monitored by measurement once every five years at any tank level, provided the roof is off its legs.
 Which Months: All Year Statistical Basis: None specified
- 189 [LAC 33:III.2|03.D.2.e] Secondary seals: Seal gap area & width monitored by measurement annually at any tank level, provided the roof is off its legs.
 Which Months: All Year Statistical Basis: None specified
- 190 [LAC 33:III.2|03.D.2.e] Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Keep records of conditions that are not up to the standards described in LAC 33:III.2|03.D.2, and the date(s) that the standards are not met. Notify the administrative authority within seven days of noncompliance with LAC 33:III.2|03.D.2.
- 191 [LAC 33:III.2|03.D.3] Equip all covers, seals, lids, automatic bleeder vents and rim space vents with gaskets.
- 192 [LAC 33:III.2|03.D.3] Provide all openings in the external floating roof (except for automatic bleeder vents, rim space vent, and leg sleeves), with a projection below the liquid surface. Equip each opening in the roof (except for automatic bleeder vents, rim space vents, roof drains, and leg sleeves) with a cover, seal or lid that is to be maintained in a closed position at all times except when the device is in actual use. Keep automatic bleeder vents closed at all times except when the roof is being floated off the roof leg supports. Set rim vents to open when the roof is being floated off the roof leg supports or at the manufacturer's recommended setting. Equip any emergency roof drain with a slotted membrane fabric cover or equivalent cover that covers at least 90 percent of the opening.
- 193 [LAC 33:III.2|03.D.4.a] Submit notification: Due to the Office of Environmental Assessment, Air Quality Assessment Division, prior to installation of guide poles and stilling well systems. Submit a description of the method of control and supporting calculations based upon the Addendum to American Petroleum Institute Publication Number 2517 Evaporative Loss from External Floating Roof Tanks, May 1994, for approval.
- 194 [LAC 33:III.2|03.D.4.a] Control nonslotted guide poles and stilling wells using pole wipers and gasketing between the well and sliding cover. Control slotted guide poles using a float with wiper, pole wiper, and gasketing between the well and sliding cover.
- 195 [LAC 33:III.2|03.D.4.d] Initiate repairs of any rips, tears, visible gaps in the pole or float wiper, and/or missing sliding cover gaskets by ordering appropriate parts within seven working days after defect is identified, to avoid noncompliance with LAC 33:III.2|03.D.4. Complete repairs within three months of the ordering of the repair parts.
- 196 [LAC 33:III.2|03.D.4.d] Equipment/operational data monitored by visual inspection/determination semiannually. Inspect control systems required by LAC 33:III.2|03.D.4 for rips, tears, visible gaps in the pole or float wiper, and/or missing sliding cover gaskets.
- 197 [LAC 33:III.2|03.D] Which Months: All Year Statistical Basis: None specified
- 198 [LAC 33:III.2|03.D] Equip external floating roof with a primary closure seal, consisting of a liquid mounted seal or a mechanical shoe seal, as defined in LAC 33:III.2|03.C.1.a and b.
- 199 [LAC 33:III.2|03.H.1] Equip with an external floating roof consisting of a pontoon type roof, double deck type roof, or external floating cover which will rest or float on the surface of the liquid contents and is equipped with a primary closure seal to close the space between the roof edge and tank wall and a continuous secondary seal (a rim mounted secondary) extending from the floating roof to the tank wall.
- 200 [LAC 33:III.2|03.H.3] Determine compliance with LAC 33:III.2|03.D.2 and 4 using the methods in LAC 33:III.2|03.H.1.
- 201 [LAC 33:III.2|03.I] Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2|03.H.3.a-e.
- Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2|03.I.1 - 7, as applicable.

EQT 0039 TK-312 - CRUDE OIL STORAGE TANK

SPECIFIC REQUIREMENTS

AI ID: 3585 - Calcasieu Refining Co - Lake Charles Crude Oil Refinery
Activity Number: PER20090001
Permit Number: 0520-00050-V7
Air - Title V Regular Permit Renewal

EQT 0039 TK-312 - CRUDE OIL STORAGE TANK

- 202 [40 CFR 60.112b(a)(1)(i)] Equip with a fixed roof in combination with an internal floating roof. The internal floating roof shall rest or float on the liquid surface (but not necessarily in complete contact with it) inside a storage vessel that has a fixed roof. The internal floating roof shall be floating on the liquid surface at all times, except during initial fill and during those intervals when the storage vessel is completely emptied or subsequently emptied and refilled. When the roof is resting on the leg supports, the process of filling, emptying, or refilling shall be continuous and shall be accomplished as rapidly as possible. Subpart Kb. [40 CFR 60.112b(a)(1)(i)]
- Equip internal floating roof with a liquid mounted seal consisting of a foam- or liquid-filled seal mounted in contact with the liquid between the wall of the storage vessel and the floating roof continuously around the circumference of the tank. Subpart Kb. [40 CFR 60.112b(a)(1)(ii)(A)]
- Equip internal floating roof with two seals mounted secondary above the primary so that each forms a continuous closure that completely covers the space between the wall of the storage vessel and the edge of the internal floating roof. The primary seal may be vapor-mounted, but both must be continuous. Subpart Kb. [40 CFR 60.112b(a)(1)(ii)(B)]
- Equip internal floating roof with a mechanical shoe seal consisting of a metal sheet held vertically against the wall of the storage vessel by springs or weighted levers and connected by braces to the floating roof. A flexible coated fabric (envelope) spans the annular space between the metal sheet and the floating roof. Subpart Kb. [40 CFR 60.112b(a)(1)(ii)(C)]
- Each opening in a noncontact internal floating roof except for automatic bleeder vents (vacuum breaker vents) and the rim space vents is to provide a projection below the liquid surface. Equip each opening in the internal floating roof except for leg sleeves, automatic bleeder vents, rim space vents, column wells, ladder wells, sample wells, and stub drains with a cover or lid and maintain in a closed position at all times (i.e., no visible gap) except when the device is in actual use. Equip the cover or lid with a gasket. Bolt covers on each access hatch and automatic gauge float well except when they are in use. Equip automatic bleeder vents with a gasket and close at all times when the roof is floating except when the roof is being floated off or is being landed on the roof leg supports. Equip rim space vents with a gasket and set to open only when the internal floating roof is not floating or at the manufacturer's recommended setting. Each penetration of the internal floating roof for the purpose of sampling shall be a sample well. The sample well shall have a slit fabric cover that covers at least 90 percent of the opening. Each penetration of the internal floating roof that allows for passage of a column supporting the fixed roof shall have a flexible fabric sleeve seal or a gasketed sliding cover. Each penetration of the internal floating roof that allows for passage of a ladder shall have a gasketed sliding cover. Subpart Kb. [40 CFR 60.112b(a)(1)]
- Tank roof and seals monitored by visual inspection/determination at the regulation's specified frequency. Inspect the internal floating roof, the primary seal, and the secondary seal (if one is in service), prior to filling the storage vessel with VOL. If there are holes, tears, or other openings in the primary seal, the secondary seal, or the seal fabric or defects in the internal floating roof, or both, repair the items before filling the storage vessel. Subpart Kb. [40 CFR 60.113b(a)(1)]
- Which Months: All Year Statistical Basis: None specified
If the internal floating roof is not resting on the surface of the VOL inside the storage vessel, or there is liquid accumulated on the roof, or the seal is detached, or there are holes or tears in the seal fabric, repair the items or empty and remove the storage vessel from service within 45 days.
If a failure that is detected during inspections required in this paragraph cannot be repaired within 45 days and if the vessel cannot be emptied within 45 days, request a 30-day extension from DEQ in the inspection report required in 40 CFR 60.115b(a)(3). Document in the request for extension that alternate storage capacity is unavailable and specify a schedule of actions the company will take that will assure that the control equipment will be repaired or the vessel will be emptied as soon as possible. Subpart Kb. [40 CFR 60.113b(a)(2)]
- 203 [40 CFR 60.112b(a)(1)(ii)(A)]
- 204 [40 CFR 60.112b(a)(1)(ii)(B)]
- 205 [40 CFR 60.112b(a)(1)(ii)(C)]
- 206 [40 CFR 60.112b(a)(1)]
- 207 [40 CFR 60.113b(a)(1)]
- 208 [40 CFR 60.113b(a)(2)]

SPECIFIC REQUIREMENTS**AI ID: 3585 - Calcasieu Refining Co - Lake Charles Crude Oil Refinery****Activity Number: PER20090001****Permit Number: 0520-00050-V7****Air - Title V Regular Permit Renewal****EQT 0039 TK-312 - CRUDE OIL STORAGE TANK**

209 [40 CFR 60.113(b)(a)(2)]

Tank roof and seals monitored by visual inspection/determination annually. Inspect the internal floating roof and the primary seal or the secondary seal (if one is in service) through manholes and roof hatches on the fixed roof at least once every 12 months after initial fill. If a failure is detected during inspections required in this paragraph initiate repair provisions. Subpart Kb. [40 CFR 60.113b(a)(2)]

Which Months: All Year Statistical Basis: None specified

210 [40 CFR 60.113(b)(a)(3)(i)]

Tank roof and seals monitored by visual inspection/determination at the regulation's specified frequency. Inspect the internal floating roof, the primary seal, the secondary seal (if one is in service), gaskets, slotted membranes and sleeve seals (if any) each time the storage vessel is emptied and degassed. If a failure is detected during inspections required in this paragraph initiate repair provisions. Subpart Kb. [40 CFR 60.113b(a)(3)(i)]

Which Months: All Year Statistical Basis: None specified

211 [40 CFR 60.113(b)(a)(4)]

Tank roof and seals monitored by visual inspection/determination at the regulation's specified frequency. Inspect the internal floating roof, the primary seal, the secondary seal (if one is in service), gaskets, slotted membranes and sleeve seals (if any) each time the storage vessel is emptied and degassed. If a failure is detected during inspections required in this paragraph initiate repair provisions. Subpart Kb. [40 CFR 60.113b(a)(4)]

Which Months: All Year Statistical Basis: None specified

212 [40 CFR 60.113(b)(a)(4)]

If the internal floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric, or the secondary seal has holes, tears, or other openings in the seal or the seal fabric, or the gaskets no longer close off the liquid surfaces from the atmosphere, or the slotted membrane has more than 10 percent open area, repair the items as necessary so that none of the conditions specified in this paragraph exist before refilling the storage vessel with VOL. In no event shall inspections conducted in accordance with this provision occur at intervals greater than 10 years in the case of vessels conducting the annual visual inspection as specified in 40 CFR 60.113b(a)(2) and (a)(3)(ii) and at intervals no greater than 5 years in the case of vessels specified in paragraph 40 CFR 60.113b(a)(3)(i) of this section. Subpart Kb. [40 CFR 60.113b(a)(4)]

Submit notification in writing: Due at least 30 days prior to the filling or refilling of each storage vessel for which an inspection is required by 40 CFR 60.113b(a)(1) and (a)(4) to afford DEQ an opportunity to have an observer present. If the inspection required by paragraph 40 CFR 60.113b(a)(4) is not planned and the owner or operator could not have known about the inspection 30 days in advance or refilling the tank, notify DEQ at least 7 days prior to the refilling of the storage vessel. Notify by telephone immediately followed by written documentation demonstrating why the inspection was unplanned. Alternatively, submit notification in writing including the written documentation and send by express mail so that it is received by DEQ at least 7 days prior to the refilling. Subpart Kb. [40 CFR 60.113b(a)(5)]

Submit a report: Due to DEQ as an attachment to the notification required by 40 CFR 60.7(a)(3). This report shall describe the control equipment and certify that the control equipment meets the specifications of 40 CFR 60.112b(a)(1) and 60.113b(a)(1). Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(a)(1)]

Inspection records recordkeeping by electronic or hard copy upon each occurrence of inspection, per 40 CFR 60.113b(a)(2) that detects any of the conditions described in 40 CFR 60.113b(a)(2). Each report shall identify the storage vessel, the nature of the defects, and the date the storage vessel was emptied or the nature of and date the repair was made. Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(a)(3)]

213 [40 CFR 60.113(b)(a)(5)]

Tank roof and seals monitored by visual inspection/determination annually. Inspect the internal floating roof and the primary seal or the secondary seal (if one is in service) through manholes and roof hatches on the fixed roof at least once every 12 months after initial fill. If a failure is detected during inspections required in this paragraph initiate repair provisions. Subpart Kb. [40 CFR 60.113b(a)(2)]

214 [40 CFR 60.115b(a)(1)]

Tank roof and seals monitored by visual inspection/determination annually. Inspect the internal floating roof and the primary seal or the secondary seal (if one is in service) through manholes and roof hatches on the fixed roof at least once every 12 months after initial fill. If a failure is detected during inspections required in this paragraph initiate repair provisions. Subpart Kb. [40 CFR 60.115b(a)(1)]

215 [40 CFR 60.115b(a)(2)]

Tank roof and seals monitored by visual inspection/determination annually. Inspect the internal floating roof and the primary seal or the secondary seal (if one is in service) through manholes and roof hatches on the fixed roof at least once every 12 months after initial fill. If a failure is detected during inspections required in this paragraph initiate repair provisions. Subpart Kb. [40 CFR 60.115b(a)(2)]

216 [40 CFR 60.115b(a)(3)]

Tank roof and seals monitored by visual inspection/determination annually. Inspect the internal floating roof and the primary seal or the secondary seal (if one is in service) through manholes and roof hatches on the fixed roof at least once every 12 months after initial fill. If a failure is detected during inspections required in this paragraph initiate repair provisions. Subpart Kb. [40 CFR 60.115b(a)(3)]

SPECIFIC REQUIREMENTS**AI ID: 3585 - Calcasieu Refining Co - Lake Charles Crude Oil Refinery****Activity Number: PER20090001****Permit Number: 0520-00050-V7****Air - Title V Regular Permit Renewal****EQT 0039 TK-312 - CRUDE OIL STORAGE TANK**

217 [40 CFR 60.115(a)(4)]

Submit a report: Due to DEQ within 30 days of each inspection required by 40 CFR 60.113(b)(a)(3) that finds holes or tears in the seal or seal fabric, or defects in the internal floating roof, or other control equipment defects listed in 40 CFR 60.113(b)(a)(3)(ii). The report shall identify the storage vessel and the reason it did not meet the specifications of 40 CFR 61.112(b)(a)(1) or 40 CFR 60.113(b)(a)(1) and list each repair made. Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(a)(4)] Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel. Keep copies of all records for the life of the source as specified by 40 CFR 60.116(b)(a). Subpart Kb. [40 CFR 60.116(b)]

VOL storage data recordkeeping by electronic or hard copy at the approved frequency. Records consist of the VOL stored, the period of storage, and the maximum true vapor pressure of that VOL during the respective storage period. Keep copies of all records for at least two years. Subpart Kb. [40 CFR 60.116b(c)]

Submit notification: Due within 30 days when the maximum true vapor pressure of the liquid exceeds the respective maximum true vapor pressure values for each volume range. Subpart Kb. [40 CFR 60.116b(d)]

Equip with a submerged fill pipe.

Equip internal floating roof with a liquid mounted seal consisting of a foam- or liquid-filled seal mounted in contact with the liquid between the wall of the storage vessel and the floating roof continuously around the circumference of the tank.

Equip internal floating roof with a mechanical shoe seal (metallic-type shoe seal) consisting of a metal sheet held vertically against the wall of the storage vessel by springs or weighted levers and connected by braces to the floating roof. A flexible coated fabric (envelope) spans the annular space between the metal sheet and the floating roof.

Equip internal floating roof with two seals mounted one above the other so that each forms a continuous closure that completely covers the space between the wall of the storage vessel and the edge of the internal floating roof. The lower seal may be vapor-mounted, but both must be continuous.

Provide each opening in the internal floating roof (except rim space vents and automatic bleeder vents) with a projection below the liquid surface. In addition, provide each opening (except for leg sleeves, bleeder vents, rim space vents, column wells, ladder wells, sample wells, and stub drains) with a cover equipped with a gasket. Equip automatic bleeder vents and rim space vents with gaskets and equip ladder wells with a sliding cover.

Equip with an internal floating roof consisting of a pontoon type roof, double deck roof, or internal floating cover which will rest or float on the surface of the liquid contents and is equipped with a closure seal to close the space between the roof edge and tank wall. All tank gauging and sampling devices will be gas-tight except when gauging or sampling is taking place.

Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-c. Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.

218 [40 CFR 60.116b(b)]

219 [40 CFR 60.116b(c)]

220 [40 CFR 60.116b(d)]

221 [LAC 33:III.2103.B]

222 [LAC 33:III.2103.C.1.a]

223 [LAC 33:III.2103.C.1.b]

224 [LAC 33:III.2103.C.1.c]

225 [LAC 33:III.2103.C.2]

226 [LAC 33:III.2103.C]

227 [LAC 33:III.2103.H.3]

228 [LAC 33:III.2103.I]

SPECIFIC REQUIREMENTS

AI ID: 3585 - Calcasieu Refining Co - Lake Charles Crude Oil Refinery
 Activity Number: PER2009001
 Permit Number: 0520-00050-V7
 Air - Title V Regular Permit Renewal

EQT 0039 TK-312 - CRUDE OIL STORAGE TANK

229 [LAC 33:III 501.C.6] Calcasieu Refining shall visually inspect the internal floating roof and the secondary seal through the manholes and roof hatches on the fixed roof of this tank at least once every 180 days and take corrective measures as required by 40 CFR 60.113b(a)(2). Calcasieu Refining shall notify the LDEQ Southwest Regional Office manager by e-mail at least seven (7) days prior to each inspection and coordinate with LDEQ to allow LDEQ to participate in such inspections. Calcasieu Refining shall empty and degass this tank by no later than February 28, 2011 and shall replace and upgrade the seals on the internal floating roof to the best available technology, or at a minimum to a mechanical shoe seal, in an effort to reduce emissions of VOCs prior to this tank being returned to service for a liquid with a maximum true vapor pressure greater than 0.5 psia. Consent Decree (Case 2:08-cv-01215-PM-KK, Date of Entry January 7, 2009).

EQT 0040 TK-313 - CRUDE OIL STORAGE TANK

230 [40 CFR 60.112a(a)(2)] Equip with a fixed roof and an internal floating type cover having a continuous closure device between the tank wall and the cover edge. The cover is to be floating at all times, (i.e., off the leg supports) except during initial fill and when the tank is completely emptied and subsequently refilled. The process of emptying and refilling when the cover is resting on the leg supports shall be continuous and shall be accomplished as rapidly as possible. Each opening in the cover except for automatic bleeder vents and the rim space vents is to provide a projection below the liquid surface. Equip each opening in the cover except for automatic bleeder vents, rim space vents, stub drains and leg sleeves with a cover, seal, or lid and maintain in a closed position at all times (i.e., no visible gap) except when the device is in actual use. Close automatic bleeder vents at all times when the cover is floating except when the cover is being floated off or is being landed on the leg supports. Set rim vents to open only when the cover is being floated off the leg supports or at the manufacturer's recommended setting. Subpart Ka. [40 CFR 60.112a(a)(2)]

Petroleum liquid storage data recordkeeping by electronic or hard copy at the approved frequency. Maintain a record of the petroleum liquid stored, the period of storage, and the maximum true vapor pressure of that liquid during the respective storage period, except as provided in 40 CFR 60.115a(d). Subpart Ka.

Equip with a submerged fill pipe.

Equip internal floating roof with two seals mounted one above the other so that each forms a continuous closure that completely covers the space between the wall of the storage vessel and the edge of the internal floating roof. The lower seal may be vapor-mounted, but both must be continuous.

Provide each opening in the internal floating roof (except rim space vents and automatic bleeder vents) with a projection below the liquid surface. In addition, provide each opening (except for leg sleeves, bleeder vents, rim space vents, column wells, ladder wells, sample wells, and stub drains) with a cover equipped with a gasket. Equip automatic bleeder vents and rim space vents with gaskets and equip ladder wells with a sliding cover.

Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3-a-e. Equipment/operational data recordkeeping by electronic or hard copy at the regulations specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.

EQT 0043 TK-316 - NAPHTHA STORAGE TANK

SPECIFIC REQUIREMENTS

AI ID: 3585 - Calcasieu Refining Co - Lake Charles Crude Oil Refinery
 Activity Number: PER20090001
 Permit Number: 0520-00050-V7
 Air - Title V Regular Permit Renewal

EQT 0043 TK-316 - NAPHTHA STORAGE TANK

237 [40 CFR 60.112(a)(2)] Equip with a fixed roof and an internal floating type cover having a continuous closure device between the tank wall and the cover edge. The cover is to be floating at all times, (i.e., off the leg supports) except during initial fill and when the tank is completely emptied and subsequently refilled. The process of emptying and refilling when the cover is resting on the leg supports shall be continuous and shall be accomplished as rapidly as possible. Each opening in the cover except for automatic bleeder vents and the rim space vents is to provide a projection below the liquid surface. Equip each opening in the cover except for automatic bleeder vents, rim space vents, stub drains and leg sleeves with a cover, seal, or lid and maintain in a closed position at all times (i.e., no visible gap) except when the device is in actual use. Close automatic bleeder vents at all times when the cover is floating except when the cover is being floated off or is being landed on the leg supports. Set rim vents to open only when the cover is being floated off the leg supports or at the manufacturer's recommended setting. Subpart Ka. [40 CFR 60.112(a)(2)]

238 [40 CFR 60.115a] Petroleum liquid storage data recordkeeping by electronic or hard copy at the approved frequency. Maintain a record of the petroleum liquid stored, the period of storage, and the maximum true vapor pressure of that liquid during the respective storage period, except as provided in 40 CFR 60.115a(d). Subpart Ka.

Equip with a submerged fill pipe.

239 [LAC 33:III.2103.B] Equip internal floating roof with two seals mounted one above the other so that each forms a continuous closure that completely covers the space between the wall of the storage vessel and the edge of the internal floating roof. The lower seal may be vapor-mounted, but both must be continuous.

Provide each opening in the internal floating roof(except rim space vents and automatic bleeder vents) with a projection below the liquid surface. In addition, provide each opening (except for leg sleeves, bleeder vents, rim space vents, column wells, sample wells, and stub drains) with a cover equipped with a gasket. Equip automatic bleeder vents and rim space vents with gaskets and equip ladder wells with a sliding cover.

240 [LAC 33:III.2103.C.1.c] Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-c. Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.

EQT 0048 TR-100 - TRUCK RACK (TRUCK LOADING)

244 [LAC 33:III.2107.A] The mineral spirits loading is subject to the requirements of LAC 33:III.2107. Which Months: All Year Statistical Basis: None specified

245 [LAC 33:III.2107.B] Prevent spills during the attachment and disconnection of filling lines or arms. Equip loading and vapor lines with fittings which close automatically when disconnected, or equip to permit residual VOC in the loading line to discharge into a collection system or disposal or recycling system.

246 [LAC 33:III.2107.B] VOC, Total >= 90 % DRE, using a vapor disposal system.

247 [LAC 33:III.2107.B] Equip with a vapor collection system consisting of, at a minimum, a vapor return line which returns all vapors displaced during loading to the VOC dispensing vessel or to a disposal system.

248 [LAC 33:III.2107.C] Discontinue loading or unloading through the affected transfer lines when a leak is observed; do not resume loading or unloading until the observed leak is repaired.

SPECIFIC REQUIREMENTS

AI ID: 3585 - Calcasieu Refining Co - Lake Charles Crude Oil Refinery

Activity Number: PER20090001

Permit Number: 0520-00050-V7

Air - Title V Regular Permit Renewal

EQT 0048 TR-100 - TRUCK RACK (TRUCK LOADING)

249 [LAC 33:III.2|107.C]

VOC, Total monitored by visual, audible, and/or olfactory during loading or unloading, to detect leaks.

Which Months: All Year Statistical Basis: None specified

Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2|107.D.1 and 2.

Determine compliance with LAC 33:III.2|107.B using the methods in LAC 33:III.2|107.E.1 through 5, as appropriate.

EQT 0049 WWTC-100 - WASTEWATER TREATMENT AND COLLECTION

252 [40 CFR 60.692-2(a)(1)]

Equip each drain with water seal controls. Subpart QQQ. [40 CFR 60.692-2(a)(1)]

Equipment/operational data monitored by visual inspection/determination once initially and monthly thereafter. Monitor drains in active service for indications of low water levels or other conditions that would reduce the effectiveness of the water seal controls. Subpart QQQ. [40 CFR 60.692-2(a)(2)]

Which Months: All Year Statistical Basis: None Specified Equipment/operational data monitored by technically sound method once initially and semiannually thereafter. Monitor the tightly sealed cap or plug over a drain that is out of service to ensure cap or plug are in place and properly installed. Subpart QQQ. [40 CFR 60.692-2(a)(4)]

Which Months: All Year Statistical Basis: None Specified Add water or make first attempts at repair as soon as practicable, but not later than 24 hours after low water levels or missing or improperly installed caps or plugs are detected, except as specified in 40 CFR 60.692-6. Subpart QQQ. [40 CFR 60.692-2(a)(5)]

Junction boxes: Equip with a cover. Ensure vent pipes are at least 90 cm (3 ft) in length and do not exceed 10.2 cm (4 in) in diameter. Subpart QQQ. [40 CFR 60.692-2(b)(1)]

Junction boxes: Cover must have a tight seal around the edge and be kept in place at all times, except during inspection and maintenance. Subpart QQQ. [40 CFR 60.692-2(b)(2)]

Junction boxes: Equipment/operational data monitored by visual inspection/determination once initially and semiannually thereafter. Monitor to ensure the cover is in place and to ensure that the cover has a tight seal around the edge. Subpart QQQ. [40 CFR 60.692-2(b)(3)]

Which Months: All Year Statistical Basis: None Specified Junction boxes: Make a first effort at repair as soon as practicable, but not later than 15 calendar days after a broken seal or gap is identified, except as provided in 40 CFR 60.692-6. Subpart QQQ. [40 CFR 60.692-2(b)(4)]

Sewer lines: Ensure that sewer lines are not open to the atmosphere and are covered or enclosed in a manner so as to have no visual gaps or cracks in joints, seals, or other emission interfaces. Subpart QQQ. [40 CFR 60.692-2(c)(1)]

Sewer lines: Equipment/operational data monitored by visual inspection/determination once initially and semiannually thereafter. Monitor the portion of each unburied sewer line for indication of cracks, gaps, or other problems that could result in VOC emissions. Subpart QQQ. [40 CFR 60.692-2(c)(2)]

Which Months: All Year Statistical Basis: None specified

Sewer lines: Make repairs as soon as practicable, but not later than 15 calendar days after cracks, gaps, or other problems are detected, except as specified in 40 CFR 60.692-6. Subpart QQQ. [40 CFR 60.692-2(c)(3)]

Do not route refinery wastewater routed through new drains and a new first common downstream junction box, either as part of a new or existing individual drain system, through a downstream catch basin. Subpart QQQ. [40 CFR 60.692-2(c)]

SPECIFIC REQUIREMENTS

AI ID: 3585 - Calcasieu Refining Co - Lake Charles Crude Oil Refinery
 Activity Number: PER20090001
 Permit Number: 0520-00050-V7
 Air - Title V Regular Permit Renewal

EQT 0049 WWTC-100 - WASTEWATER TREATMENT AND COLLECTION

Before using any equipment installed in compliance with 40 CFR 60.692-2, 60.692-3, 60.692-4, 60.692-5, or 60.693, inspect such equipment for indication of potential emissions, defects, or other problems that may cause requirements of 40 CFR 60 Subpart QQQ not to be met. Subpart QQQ. [40 CFR 60.696(a)]
 Retain all records required by 40 CFR 60 Subpart QQQ for a period of 2 years after being recorded unless otherwise noted. Subpart QQQ. [40 CFR 60.697(a)]

Inspection records recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep the records specified in 40 CFR 60.697(b)(1) through (b)(3). Subpart QQQ. [40 CFR 60.697(b)]

Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep the records specified in 40 CFR 60.697(e)(1) through (e)(4), as applicable. Subpart QQQ. [40 CFR 60.697(e)]

Equipment/operational data recordkeeping by electronic or hard copy continuously. Keep the records specified in 40 CFR 60.697(f)(1) through (f)(3) for the life of the source in a readily accessible location. Subpart QQQ. [40 CFR 60.697(f)]

Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep plans or specifications which indicate the location of out of active service drains covered by tightly sealed caps or plugs for the life of the facility in a readily accessible location. Subpart QQQ. [40 CFR 60.697(g)]

Submit Notification: Due within 60 days after initial startup. Submit a certification that the equipment necessary to comply with 40 CFR 60 Subpart QQQ has been installed and that the required initial inspections or tests of process drains, sewer lines, junction boxes, oil-water separators, and closed vent systems and control devices have been carried out in accordance with 40 CFR 60 Subpart QQQ. Thereafter, submit a certification semiannually that all of the required inspections have been carried out in accordance with 40 CFR 60 Subpart QQQ. Subpart QQQ. [40 CFR 60.698(b)(1)]

Submit report: Due initially and semiannually thereafter. Submit a report that summarizes all inspections when a water seal was dry or otherwise breached, when a drain cap or plug was missing or improperly installed, or when cracks, gaps, or other problems were identified that could result in VOC emissions, including information about the repairs or corrective action taken. Subpart QQQ. [40 CFR 60.698(c)]

EQT 0050 TK-20 - PRESSURIZED STORAGE TANK

272 [LAC 33:III.2103.B] Maintain working pressures sufficient at all times under normal operating conditions to prevent vapor or gas loss to the atmosphere.

EQT 0051 H-701 - VACUUM TOWER UNIT REBOILER

273 [40 CFR 60.104(a)(1)] Fuel gas: Hydrogen sulfide <= 0.1 gr/dscf (230 mg/dscm). Subpart J. [40 CFR 60.104(a)(1)]
 Which Months: All Year Statistical Basis: Three-hour rolling average
 Hydrogen sulfide monitored by continuous emission monitor (CEM) continuously. Monitor the H₂S in fuel gases before being burned in any fuel gas combustion device. Subpart J. [40 CFR 60.105(a)(4)]

Which Months: All Year Statistical Basis: None specified
 Use as reference methods and procedures the test methods in 40 CFR 60 appendix A or other methods and procedures as specified in 40 CFR 60.106, except as provided in 40 CFR 60.8(b), in conducting the performance tests required in 40 CFR 60.8 Subpart J. [40 CFR 60.106(a)]
 Determine compliance with standards using the test methods and procedures specified in 40 CFR 60.106(a) through (k). Subpart J. [40 CFR 60.106]

SPECIFIC REQUIREMENTS

AI ID: 3585 - Calcasieu Refining Co - Lake Charles Crude Oil Refinery
 Activity Number: PER20090001
 Permit Number: 0520-00050-V7
 Air - Title V Regular Permit Renewal

EQT 0051 H-701 - VACUUM TOWER UNIT REBOILER

277 [LAC 33:III.1(1)(B)] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, changing of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: None specified
 Total suspended particulate <= 0.6 lb/MMBTU of heat input.

Which Months: All Year Statistical Basis: None specified

To ensure compliance with NOx emission limit, shall conduct an initial performance test to EPA and LDEQ. Shall use Method 7E or an EPA-approved alternative test LDEQ. Shall report the results of the initial performance test to LDEQ. Shall use Method 7E or an EPA-approved alternative test method to conduct initial performance test.

Heaters and boilers with heat input greater than 40 MM BTU/hr (HHV) shall achieve an interim system-wide weighted average concentration emission limit for NOx of 0.060 lb/MM BTU, to be achieved by December 31, 2008, and a final system-wide weighted average concentration emission limit for NOx of 0.040 lb/MM BTU, by December 31, 2010. Consent Decree (Case 2:08-cv-01215-PM-KK). Date of Entry January 7, 2009).

EQT 0054 TK-320 - NAPHTHA STORAGE TANK

278 [LAC 33:III.1(1)(C)] Except for automatic bleeder vents and rim space vents, each opening in a noncontact external floating roof shall provide a projection below the liquid surface. Except for automatic bleeder vents, rim space vents, roof drains, and leg sleeves, equip each opening in the roof with a gasketed cover, seal, or lid and maintain in a closed position at all times (i.e., no visible gap) except when the device is in actual use. Close automatic bleeder vents at all times when the roof is floating except when the roof is being floated off or is being landed on the roof leg supports. Set rim vents to open when the roof is being floated off the roof legs supports or at the manufacturer's recommended setting. Equip automatic bleeder vents and rim space vents with gaskets. Provide each emergency roof drain with a slotted membrane fabric cover that covers at least 90 percent of the area of the opening. Subpart Kb. [40 CFR 60.112b(a)(2)(ii)]
 Equip with an external floating roof consisting of a pontoon-type or double-deck type cover that rests on the liquid surface in a vessel with no fixed roof. Equip with a closure device between the wall of the storage vessel and the roof edge. The closure device consists of two seals, secondary above the primary. The primary seal shall be either a mechanical shoe seal or a liquid-mounted seal. Except as provided in 40 CFR 60.113b(b)(4), the primary seal shall completely cover the annular space between the edge of the floating roof and tank wall. The secondary seal shall completely cover the annular space between the external floating roof and the wall of the storage vessel in a continuous fashion except as allowed in 40 CFR 60.113b(b)(4). The roof shall be floating on the liquid at all times (i.e., off the roof leg supports) except during initial fill until the roof is lifted off leg supports and when the tank is completely emptied and subsequently refilled. The process of filling, emptying, or refilling when the roof is resting on the leg supports shall be continuous and shall be accomplished as rapidly as possible. Subpart Kb. [40 CFR 60.112b(a)(2)]

281 [40 CFR 60.112b(a)(2)(ii)] Seal gap area & width monitored by measurement at the regulation's specified frequency. Using the procedures in 40 CFR 60.113b(b)(2) determine the gap areas and maximum gap widths between the primary seal and the wall of the storage vessel during the hydrostatic testing of the vessel or within 60 days of the initial fill with VOL and at least once every 5 years thereafter. Subpart Kb. [40 CFR 60.113b(b)(1)(i)]
 Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS**AI ID: 3585 - Calcasieu Refining Co - Lake Charles Crude Oil Refinery****Activity Number: PER20090001****Permit Number: 0520-00050-V7****Air - Title V Regular Permit Renewal****EQT 0054 TK-320 - NAPHTHA STORAGE TANK**

284 [40 CFR 60.113(b)(1)(ii)]

Seal gap area & width monitored by measurement at the regulation's specified frequency. Using the procedures in 40 CFR 60.113(b)(2) determine the gap areas and maximum gap widths between the secondary seal and the wall of the storage vessel within 60 days of the initial fill with VOL and at least once per year thereafter. Subpart Kb. [40 CFR 60.113(b)(1)(ii)]

Which Months: All Year Statistical Basis: None specified

Add the gap surface area of each gap location for the primary seal and the secondary seal individually and divide the sum for each seal by the nominal diameter of the tank and compare each ratio to the respective standards in 40 CFR 60.113b(b)(4). Subpart Kb. [40 CFR 60.113b(b)(3)] One end of the mechanical shoe is to extend into the stored liquid, and the other end is to extend a minimum vertical distance of 61 cm above the stored liquid surface. Subpart Kb. [40 CFR 60.113b(b)(4)(i)(A)]

There are to be no holes, tears, or other openings in the shoe, primary seal fabric, or seal envelope. Subpart Kb. [40 CFR 60.113b(b)(4)(i)(B)] Seal gap area <= 212 cm²/m of tank diameter (accumulated area) for gaps between the tank wall and the mechanical shoe or liquid-mounted primary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(i)]

Which Months: All Year Statistical Basis: None specified

Seal gap width <= 3.81 cm for the width of any portion of any gap between the tank wall and the mechanical shoe or liquid-mounted primary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(i)]

Which Months: All Year Statistical Basis: None specified

Install the secondary seal above the primary seal so that it completely covers the space between the roof edge and the tank wall except as provided in 60.113b(b)(2)(ii). Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(A)]

Seal gap width <= 1.27 cm for the width of any portion of any gap between the tank wall and the secondary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(B)]

Which Months: All Year Statistical Basis: None specified

Seal gap area <= 21.2 cm²/m of tank diameter (accumulated area) for gaps between the tank wall and the secondary seal. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(B)]

Which Months: All Year Statistical Basis: None specified

There are to be no holes, tears, or other openings in the secondary seal or seal fabric. Subpart Kb. [40 CFR 60.113b(b)(4)(ii)(C)] Make necessary repairs or empty the storage vessel within 45 days of identification in any inspection for seals not meeting the requirements listed in 40 CFR 60.113b(b)(4) (i) and (ii) except as specified in 40 CFR 60.113b(b)(4)(iii). Subpart Kb. [40 CFR 60.113b(b)(4)]

Submit notification: Due at least 30 days in advance of any gap measurements required by 40 CFR 60.113b(b)(1) to afford DEQ the opportunity to have an observer present. Subpart Kb. [40 CFR 60.113b(b)(5)]

If the external floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric, or the secondary seal has holes, tears, or other openings in the seal or the seal fabric, repair the items as necessary so that none of the conditions specified in this paragraph exist before filling or refilling the storage vessel with VOL. Subpart Kb. [40 CFR 60.113b(b)(6)(i)]

Submit notification in writing: Due at least 30 days prior to the filling or refilling of each storage vessel for which an inspection is required by 40 CFR 60.113b(b)(6) to afford DEQ an opportunity to inspect the storage vessel prior to refilling. If the inspection required by paragraph 40 CFR 60.113b(b)(6) is not planned and the owner or operator could not have known about the inspection 30 days in advance or refilling the tank, notify DEQ at least 7 days prior to the refilling of the storage vessel. Notify by telephone immediately followed by written documentation demonstrating why the inspection was unplanned. Alternatively, submit notification in writing including the written documentation and send by express mail so that it is received by DEQ at least 7 days prior to the refilling. Subpart Kb. [40 CFR 60.113b(b)(6)(ii)]

SPECIFIC REQUIREMENTS

AI ID: 3585 - Calcasieu Refining Co - Lake Charles Crude Oil Refinery
Activity Number: PER20090001
Permit Number: 0520-00050-V7
Air - Title V Regular Permit Renewal

EQT 0054 TK-320 - NAPHTHA STORAGE TANK

- 298 [40 CFR 60.113(b)(6)] Tank roof and seals monitored by visual inspection/determination at the regulation's specified frequency. Inspect the external floating roof, the primary seal, the secondary seal, and fittings each time the storage vessel is emptied and degassed. Subpart Kb. [40 CFR 60.113(b)(6)]
- Which Months: All Year Statistical Basis: None specified
- Submit a report: Due to DEQ as an attachment to the notification required by 40 CFR 60.7(a)(3). This report shall describe the control equipment and certify that the control equipment meets the specifications of 40 CFR 60.112b(a)(2) and 60.113b(b)(2), (b)(3), and (b)(4). Keep copies of all reports for at least two years.
- Subpart Kb. [40 CFR 60.115b(b)(1)] Submit a report: Due to DEQ within 60 days of performing the seal gap measurements required by 40 CFR 60.113(b)(1). The report shall contain: 1) the date of measurement, 2) the raw data obtained in the measurement, 3) the calculations described in 40 CFR 60.113b(b)(2) and (b)(3). Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(b)(2)]
- Gap measurement(s) recordkeeping by electronic or hard copy upon each occurrence of gap measurement performance, as required by 40 CFR 60.113b(b). Each record shall identify the storage vessel in which the measurement was performed and shall contain: 1) the date of measurement, 2) the raw data obtained in the measurement, 3) the calculations described in 40 CFR 60.113b(b)(2) and (b)(3). Keep copies of all records for at least two years. Subpart Kb. [40 CFR 60.115b(b)(3)]
- Submit a report: Due to DEQ within 30 days after each seal gap measurement that detects gaps exceeding the limitations specified by 40 CFR 60.113b(b)(4). The report will identify the vessel and contain the information specified in 40 CFR 60.115b(b)(2) and the date the vessel was emptied or the repairs made and date of repair. Keep copies of all reports for at least two years. Subpart Kb. [40 CFR 60.115b(b)(4)] Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel. Keep copies of all records for the life of the source as specified by 40 CFR 60.116b(a). Subpart Kb. [40 CFR 60.116b(b)] VOL storage data recordkeeping by electronic or hard copy at the approved frequency. Records consist of the VOL stored, the period of storage, and the maximum true vapor pressure of that VOL during the respective storage period. Keep copies of all records for at least two years. Subpart Kb. [40 CFR 60.116b(c)]
- Equip with a submerged fill pipe.
- Seal closure devices required in LAC 33:III.2103.D shall have no visible holes, tears, or other openings in the seals or seal fabric.
- Seal closure devices required in LAC 33:III.2103.D shall be intact and uniformly in place around the circumference of the floating roof and the tank wall.
- Seal gap area <= 1 in²/ft of tank diameter (6.5 cm²/0.3 m), for gaps between the secondary seal and tank wall that exceed 1/8 inch (0.32 cm) in width.
- Which Months: All Year Statistical Basis: None specified
- Seal gap area <= 10 in²/ft of tank diameter (65 cm²/0.3 m), for gaps between the primary seal and tank wall that exceed 1/8 inch (0.32 cm) in width.
- Which Months: All Year Statistical Basis: None specified
- Secondary seals: Seal gap area & width monitored by measurement annually at any tank level, provided the roof is off its legs.
- Which Months: All Year Statistical Basis: None specified
- Equipment/operational data recordkeeping by electronic or hard copy upon occurrence of event. Keep records of conditions that are not up to the standards described in LAC 33:III.2103.D.2, and the date(s) that the standards are not met. Notify the administrative authority within seven days of noncompliance with LAC 33:III.2103.D.2.

SPECIFIC REQUIREMENTS

AI ID: 3585 - Calcasieu Refining Co - Lake Charles Crude Oil Refinery

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EQT 0054 TK-320 - NAPHTHA STORAGE TANK

- 312 [LAC 33:II.2103.D.2.e] Primary seals: Seal gap area & width monitored by measurement once every five years at any tank level, provided the roof is off its legs.
Which Months: All Year Statistical Basis: None specified
Initiate repairs of seals within seven working days of recognition of defective conditions by ordering appropriate parts, to avoid noncompliance with LAC 33:III.2103. Complete repairs within three months of the ordering of the repair parts.
- 314 [LAC 33:II.2103.D.2.e] Secondary Seal or closure mechanism monitored by visual inspection/determination semiannually.
Which Months: All Year Statistical Basis: None specified
Equip all covers, seals, lids, automatic bleeder vents and rim space vents with gaskets.
- 315 [LAC 33:II.2103.D.3] Provide all openings in the external floating roof (except for automatic bleeder vents, rim space vent, and leg sleeves) with a projection below the liquid surface. Equip each opening in the roof (except for automatic bleeder vents, rim space vents, roof drains, and leg sleeves) with a cover, seal or lid that is to be maintained in a closed position at all times except when the device is in actual use. Keep automatic bleeder vents closed at all times except when the roof is being floated off the roof leg supports. Set rim vents to open when the roof is being floated off the roof leg supports or at the manufacturer's recommended setting. Equip any emergency roof drain with a slotted membrane fabric cover or equivalent cover that covers at least 90 percent of the opening.
- 317 [LAC 33:II.2103.D.4.a] Control nonslotted guide poles and stilling wells using pole wipers and gasketing between the well and sliding cover. Control slotted guide poles using a float with wiper, pole wiper, and gasketing between the well and sliding cover.
- 318 [LAC 33:II.2103.D.4.a] Submit notification: Due to the Office of Environmental Assessment prior to installation of guide poles and stilling well systems. Submit a description of the method of control and supporting calculations based upon the Addendum to American Petroleum Institute Publication Number 2517 Evaporative Loss from External Floating Roof Tanks, May 1994, for approval.
- 319 [LAC 33:II.2103.D.4.d] Equipment/operational data monitored by visual inspection/determination semiannually. Inspect control systems required by LAC 33:II.2103.D.4 for rips, tears, visible gaps in the pole or float wiper, and/or missing sliding cover gaskets.
- 320 [LAC 33:II.2103.D.4.d] Which Months: All Year Statistical Basis: None specified
Initiate repairs of any rips, tears, visible gaps in the pole or float wiper, and/or missing sliding cover gaskets by ordering appropriate parts within seven working days after defect is identified, to avoid noncompliance with LAC 33:III.2103.D.4. Complete repairs within three months of the ordering of the repair parts.
- 321 [LAC 33:II.2103.D] Equip with an external floating roof consisting of a pontoon type roof, double deck type roof, or external floating cover which will rest or float on the surface of the liquid contents and is equipped with a primary closure seal to close the space between the roof edge and tank wall and a continuous secondary seal (a rim mounted secondary) extending from the floating roof to the tank wall.
- 322 [LAC 33:II.2103.H.1] Determine compliance with LAC 33:III.2103.D.2 and 4 using the methods in LAC 33:III.2103.H.1.
- 323 [LAC 33:II.2103.H.3] Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e.
- 324 [LAC 33:II.2103.I] Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:II.2103.I.1 - 7, as applicable.

EQT 0057 Fractank - OILY WATER STORAGE TANK

- 325 [LAC 33:II.2103.A] Equip with a submerged fill pipe.
- 326 [LAC 33:II.2103.H.3] Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-c.

SPECIFIC REQUIREMENTS

AI ID: 3585 - Calcasieu Refining Co - Lake Charles Crude Oil Refinery
Activity Number: PER20090001
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EQT 0057 FracTank - OILY WATER STORAGE TANK

327 [LAC 33:III.2103.I]

Equipment/operational data recordkeeping by electronic or hard copy at the regulations specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable.

EQT 0058 EMERG - Backup Diesel Generator

328 [40 CFR 60.4205(b)]

329 [40 CFR 60.4206]

330 [40 CFR 60.4207(a)]

331 [40 CFR 60.4207(b)]

332 [40 CFR 60.4209(a)]

333 [40 CFR 60.4211(a)]

334 [40 CFR 60.4211(c)]

335 [40 CFR 63.6590(e)]

336 [LAC 33:III.1101.B]

337 [LAC 33:III.1311.C]

Comply with the emission standards for new nonroad CI engines in 40 CFR 60.4202, for all pollutants, for the same model year and maximum engine power. Subpart III. [40 CFR 60.4205(b)]

Operate and maintain stationary CI ICE according to the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer, over the entire life of the engine. Subpart III. Beginning October 1, 2007, use diesel fuel that meets the requirements of 40 CFR 80.510(a). Subpart III. [40 CFR 60.4207(a)]

Beginning October 1, 2010, use diesel fuel that meets the requirements of 40 CFR 80.510(b) for nonroad diesel fuel. Subpart III. [40 CFR 60.4207(b)]

Operating time monitored by hour/time monitor continuously during operation. Install a non-resettable hour meter prior to startup of the engine. Subpart III. [40 CFR 60.4209(a)]

Which Months: All Year Statistical Basis: None specified Operate and maintain the stationary CI internal combustion engine and control device according to the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer. In addition, only change those settings that are permitted by the manufacturer. Also meet the requirements of 40 CFR 89, 94 and/or 1068, as applicable. Subpart III. [40 CFR 60.4211(a)] Ensure engine is certified to the emission standards in 40 CFR 60.4204(b), or 40 CFR 60.4025(b) or (c), as applicable, for the same model year and maximum (or in the case of fire pumps, NFPA nameplate) engine power. Install and configure according to the manufacturer's specifications. Subpart III. [40 CFR 60.4211(c)]

Comply with applicable requirements of 40 CFR 60 Subpart III. [40 CFR 63.6590(c)] Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes.

Which Months: All Year Statistical Basis: None specified Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. Which Months: All Year Statistical Basis: Six-minute average

FUG 0007 FUG - FACILITY FUGITIVES

338 [40 CFR 60.592(a)]

339 [40 CFR 60.592(d)]

340 [40 CFR 60.592(c)]

Comply with the requirements of 40 CFR 60.482-1 to 482-10 as soon as practicable, but no later than 180 days after initial startup Subpart GGG. [40 CFR 60.592(a)]

Comply with the provisions of 40 CFR 60.485 except as provided in 40 CFR 60.593. Subpart GGG. [40 CFR 60.592(d)]

Comply with the provisions of 40 CFR 60.486 and 60.487. Subpart GGG. [40 CFR 60.592(e)]

SPECIFIC REQUIREMENTS

AI ID: 3585 - Calcasieu Refining Co - Lake Charles Crude Oil Refinery

Activity Number: PER20090001

Permit Number: 0520-00050-V7

Air - Title V Regular Permit Renewal

FUG 0007 FUG - FACILITY FUGITIVES

Equip all rotary pumps and compressors handling volatile organic compounds having a true vapor pressure of 1.5 psia or greater at handling conditions with mechanical seals or other equivalent equipment.

Comply with LAC 33:III.21.22 by implementing the Louisiana Consolidated Fugitive Emission Program Guidelines. Compliance is achieved through compliance with 40 CFR Part 60, Subpart GGG.

A leak detection and repair level of 500 ppm shall be used for valves (excluding pressure relief devices), except for the process pumps, which have the leak detection level of 2,000 ppm. (Using this definition on 50% pumps by January 7, 2009 and on 100% pumps by January 6, 2010.) Consent Decree (Case 2:08-cv-01215-PM-KK, Date of Entry January 7, 2009).

GRP 0005 CAP-1 - Crude Oil Tank Cap

Group Members: EQT 0027EQT 0038EQT 0039

341 [LAC 33:III.21.1]

342 [LAC 33:III.21.2]

343 [LAC 33:III.501.C.6]

Shall demonstrate compliance with the emission limit (27.80 TPY VOCs) of Crude Oil Tank Cap by recording the chemicals stored and throughput to the tanks under this cap (Tanks 300, 311, and 312). The throughput and chemicals stored shall be recorded each month. The total throughput for the last twelve months shall also be recorded. These records shall be kept on site and available for inspection by the Office of Environmental Compliance, Surveillance Division. Total VOC emissions from the tanks under this emission cap over the maximum given in this permit for any twelve consecutive month period shall be considered a violation of this permit and must be reported to the Office of Environmental Compliance, Enforcement Division. A report showing chemicals stored, throughput, and the VOC emissions calculated based on the throughput for the preceding calendar year shall be submitted to the Office of Environmental Compliance, Enforcement Division by March 31.

GRP 0006 CAP-2 - Heavy Product Tank Cap

Group Members: EQT 0028EQT 0039EQT 0031EQT 0033EQT 0035EQT 0044

344 [LAC 33:III.501.C.6]

Shall demonstrate compliance with the emission limit (4.72 TPY VOCs) of Heavy Products Tank Cap by recording the chemicals stored and throughput to the tanks under this cap (Tanks 301, 303, 304, 305, 306, 308, and 317). The throughput and chemicals stored shall be recorded each month. The total throughput for the last twelve months shall also be recorded. These records shall be kept on site and available for inspection by the Office of Environmental Compliance, Surveillance Division. Total VOC emissions from the tanks under this emission cap over the maximum given in this permit for any twelve consecutive month period shall be considered a violation of this permit and must be reported to the Office of Environmental Compliance, Enforcement Division. A report showing chemicals stored, throughput, and the VOC emissions calculated based on the throughput for the preceding calendar year shall be submitted to the Office of Environmental Compliance, Enforcement Division by March 31.

GRP 0007 CAP-3 - Intermediate Products Tank Cap

Group Members: EQT 0034EQT 0041EQT 0042EQT 0043EQT 0046

SPECIFIC REQUIREMENTS

AI ID: 3585 - Calcasieu Refining Co - Lake Charles Crude Oil Refinery
Activity Number: PER20090001
Permit Number: 0520-00050-V7
Air - Title V Regular Permit Renewal

GRP 0007 CAP-3 - Intermediate Products Tank Cap

346 [LAC 33:II.501.C.6]

Shall demonstrate compliance with the emission limit (7.73 TPY VOCs) of Intermediate Products Tank Cap by recording the chemicals stored and throughput to the tanks under this cap (Tanks 307, 314, 315, 318, and 319). The throughput and chemicals stored shall be recorded each month. The total throughput for the last twelve months shall also be recorded. These records shall be kept on site and available for inspection by the Office of Environmental Compliance, Surveillance Division. Total VOC emissions from the tanks under this emission cap over the maximum given in this permit for any twelve consecutive month period shall be considered a violation of this permit and must be reported to the Office of Environmental Compliance, Enforcement Division. A report showing chemicals stored, throughput, and the VOC emissions calculated based on the throughput for the preceding calendar year shall be submitted to the Office of Environmental Compliance, Enforcement Division by March 31.

GRP 0008 CAP-4 - Naphtha Tank Cap

Group Members: EQI 0033EQT 0054

347 [LAC 33:II.501.C.6]

Shall demonstrate compliance with the emission limit (7.50 TPY VOCs) of Naphtha Tank Cap by recording the chemicals stored and throughput to the tanks under this cap (Tanks 316 and 320). The throughput and chemicals stored shall be recorded each month. The total throughput for the last twelve months shall also be recorded. These records shall be kept on site and available for inspection by the Office of Environmental Compliance, Surveillance Division. Total VOC emissions from the tanks under this emission cap over the maximum given in this permit for any twelve consecutive month period shall be considered a violation of this permit and must be reported to the Office of Environmental Compliance, Enforcement Division. A report showing chemicals stored, throughput, and the VOC emissions calculated based on the throughput for the preceding calendar year shall be submitted to the Office of Environmental Compliance, Enforcement Division by March 31.

UNF 0001 - Lake Charles Crude Oil Refinery

348 [40 CFR 60.]

349 [40 CFR 61.145(b)(1)]

All affected facilities shall comply with all applicable provisions in 40 CFR 60 Subpart A.
 Provide DEQ with written notice of intention to demolish or renovate prior to performing activities to which 40 CFR 61 Subpart M applies. Delivery of the notice by U.S. Postal Service, commercial delivery service, or hand delivery is acceptable. Subpart M. [40 CFR 61.145(b)(1)] Do not install or reinstall on a facility component any insulating materials that contain commercial asbestos if the materials are either molded and friable or wet-applied and friable after drying. Subpart M.

351 [40 CFR 61.342(e)(2)(ii)]

Benzene <= 6 Mg/yr (6.6 ton/yr), as determined in 40 CFR 61.355(k). Subpart FF. [40 CFR 61.342(e)(2)(ii)] Which Months: All Year Statistical Basis: None specified Determine compliance with 40 CFR 61 Subpart FF using the test methods and procedures specified in 40 CFR 61.355(a) through (i), as applicable. Subpart FF.

353 [40 CFR 61.356]

Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records as specified in 40 CFR 61.356(a) through (n), as applicable. Maintain each record in a readily accessible location at the facility site for a period not less than two years from the date the information is recorded unless otherwise specified. Subpart FF.

SPECIFIC REQUIREMENTS

AI ID: 3585 - Calcasieu Refining Co - Lake Charles Crude Oil Refinery
Activity Number: PER20090001
Permit Number: 0520-00050-V7
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UNF 0001 - Lake Charles Crude Oil Refinery

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| 354 | [40 CFR 61.357(c)] | Submit report: Due annually and whenever there is a change in the process generating the waste stream that could cause the total annual benzene quantity from facility waste to increase to 10 MG/yr (11 ton/yr) or more. Submit updates to the information specified in 40 CFR 61.357(a)(1) through (a)(3) or, if the information in 40 CFR 61.357(a)(1) through (3) is not changed in the following year, a statement to that effect. Subpart FF. [40 CFR 61.357(c)] |
| 355 | [40 CFR 61.] | All affected facilities shall comply with all applicable provisions in 40 CFR 61 Subpart A. |
| 356 | [40 CFR 63.] | All affected facilities shall comply with all applicable provisions in 40 CFR 63 Subpart A. |
| 357 | [40 CFR 68.12(b)(1)] | Equipment/operational data recordkeeping by electronic or hard copy continuously. Document that the nearest public receptor is beyond the distance to a toxic or flammable endpoint defined in 68.22. [40 CFR 68.12(b)(1)] |
| 358 | [40 CFR 68.12(b)(2)] | Complete the five-year accident history for the process as provided in 68.42. [40 CFR 68.12(b)(2)] |
| 359 | [40 CFR 68.12(b)(3)] | Ensure that response actions have been coordinated with local emergency planning and response agencies. [40 CFR 68.12(b)(3)] |
| 360 | [40 CFR 68.12(b)(4)] | Include in the RMP the certification specified in 68.12(b)(4). [40 CFR 68.12(b)(4)] |
| 361 | [40 CFR 68.150] | Submit Risk Management Plan (RMP): Due no later than June 21, 1999, or three years after the date on which a regulated substance is first listed under 68.130, or the date on which a regulated substance is first present above a threshold quantity in a process. Submit in a method and format to a central point as specified by EPA prior to June 21, 1999. |
| 362 | [40 CFR 68.155] | Provide in the RMP an executive summary that includes a brief description of the elements listed in 68.155(a) through (g). |
| 363 | [40 CFR 68.160] | Complete a single registration form and include in the RMP. Cover all regulated substances handled in covered processes. Include in the registration the information specified in 68.160(b)(1) through (13). |
| 364 | [40 CFR 68.165] | Submit in the RMP information one worst-case release scenario for each Program I process. Include the data specified in 68.165(b)(1) through (13). |
| 365 | [40 CFR 68.168] | Submit in the RMP the information provided in 68.42(b) on each accident covered by 68.42(a). |
| 366 | [40 CFR 68.180] | Provide in the RMP the emergency response information listed in 68.180(a) through (c). |
| 367 | [40 CFR 68.190(c)] | Submit revised registration to EPA: Due within six months after a stationary source is no longer subject to 40 CFR 68. Indicate that the stationary source is no longer covered. [40 CFR 68.190(c)] |
| 368 | [40 CFR 68.190] | Review and update the RMP as specified in 68.190(b) and submit it in a method and format to a central point specified by EPA prior to June 21, 1999. |
| 369 | [40 CFR 68.200] | Maintain records supporting the implementation of 40 CFR 68 for five years unless otherwise provided. |
| 370 | [40 CFR 68.22] | Use the endpoints specified in 68.22(a) through (g) for analyses of offsite consequences. |
| 371 | [40 CFR 68.25] | Analyze the release scenarios in 68.25, as specified in 68.25(a) through (h). |
| 372 | [40 CFR 68.28] | Identify and analyze at least one alternative release scenario for each regulated toxic substance held in a covered process(es) and at least one alternative release scenario to represent all flammable substances held in covered processes, as specified in 68.28(b) through (e). |
| 373 | [40 CFR 68.30] | Estimate in the RMP the population within a circle with its center at the point of the release and a radius determined by the distance to the endpoint defined in 68.22(a). |

SPECIFIC REQUIREMENTS

AI ID: 3585 - Calcasieu Refining Co - Lake Charles Crude Oil Refinery
Activity Number: PER20090001
Permit Number: 0520-00050-V7
Air - Title V Regular Permit Renewal

UNF 0001 - Lake Charles Crude Oil Refinery

- 374 [40 CFR 68.33] List in the RMP environmental receptors within a circle with its center at the point of the release and a radius determined by the distance to the endpoint defined in 68.22(a). Submit revised RMP. Due within six months after changes in processes, quantities stored or handled, or any other aspect of the stationary source increase or decrease the distance to the endpoint by a factor of two or more. [40 CFR 68.36(b)]
- 375 [40 CFR 68.36(b)] Review and update the offsite consequence analyses at least once every five years. Complete a revised analysis within six months if changes in processes, quantities stored or handled, or any other aspect of the stationary source might reasonably be expected to increase or decrease the distance to the endpoint by a factor of two or more.
- 376 [40 CFR 68.36] Equipment/operational data recordkeeping by electronic or hard copy continuously. Maintain the records specified in 68.39(a) through (c) on the offsite consequence analyses.
- 377 [40 CFR 68.39] Include in the five-year accident history all accidental releases from covered processes that resulted in deaths, injuries, or significant property damage on site, or known offsite deaths, injuries, evacuations, sheltering in place, property damage, or environmental damage. Include the information specified in 68.42(b)(1) through (10) for each accidental release.
- 378 [40 CFR 68.42] Comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B.
- 379 [40 CFR 82. Subpart F] Emissions of smoke which pass onto or across a public road and create a traffic hazard by impairment of visibility as defined in LAC 33:III.11
- 380 [LAC 33:III.1103] or intensify an existing traffic hazard condition are prohibited.
- 381 [LAC 33:III.1109.B] Outdoor burning of waste material or other combustible material is prohibited.
- 382 [LAC 33:III.1303.B] Emissions of particulate matter which pass onto or across a public road and create a traffic hazard by impairment of visibility or intensify an existing traffic hazard condition are prohibited.
- 383 [LAC 33:III.2113.A] Maintain best practical housekeeping and maintenance practices at the highest possible standards to reduce the quantity of organic compounds emissions. Good housekeeping shall include, but not be limited to, the practices listed in LAC 33:III.2113.A.1-5.
- 384 [LAC 33:III.219] Failure to pay the prescribed application fee or annual fee as provided herein, within 90 days after the due date, will constitute a violation of these regulations and shall subject the person to applicable enforcement actions under the Louisiana Environmental Quality Act including, but not limited to, revocation or suspension of the applicable permit, license, registration, or variance.
- 385 [LAC 33:III.501.C.6] Shall complete installation of an H2S continuous monitoring system (CMS) on fuel gas lines not later than December 24, 2009, and maintain the CMS in accordance with 40 CFR Part 60, Appendix F and Subpart A. Shall comply with the Interim Alternative Monitoring Plan described in Appendix D of the Consent Decree until the installation of the fuel gas line H2S CMS is complete. Consent Decree (Case 2:08-cv-01215-PM-KK, Date of Entry January 7, 2009).
- 386 [LAC 33:III.501.C.6] Shall not burn fuel oil in any combustion device at this facility. Consent Decree (Case 2:08-cv-01215-PM-KK, Date of Entry January 7, 2009). [LAC 33:III.501.C.6]
- 387 [LAC 33:III.5151.F.1.Q] An individual or company contracted to perform a demolition or renovation activity which disturbs RACM must be recognized by the Licensing Board for Contractors to perform asbestos abatement, and shall meet the requirements of LAC 33:III.5151.F.2 and F.3 for each demolition or renovation activity.
- 388 [LAC 33:III.535] Comply with the Part 70 General Conditions as set forth in LAC 33:III.535 and the Louisiana General Conditions as set forth in LAC 33:III.537. [LAC 33:III.535]

SPECIFIC REQUIREMENTS

AI ID: 3585 - Calcasieu Refining Co - Lake Charles Crude Oil Refinery
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- 389 [LAC 33:III.5609.A.1.b] Activate the preplanned abatement strategy listed in LAC 33:III.5611. Table 5 when the administrative authority declares an Air Pollution Alert.
- 390 [LAC 33:III.5609.A.2.b] Activate the preplanned strategy listed in LAC 33:III.5611. Table 6 when the administrative authority declares an Air Pollution Warning.
- 391 [LAC 33:III.5609.A.3.b] Activate the preplanned abatement strategy listed in LAC 33:III.5611. Table 7 when the administrative authority declares an Air Pollution Emergency.
- 392 [LAC 33:III.5609.A] Prepare standby plans for the reduction of emissions during periods of Air Pollution Alert, Air Pollution Warning and Air Pollution Emergency.
- Design standby plans to reduce or eliminate emissions in accordance with the objectives as set forth in LAC 33:III.5611. Tables 5, 6, and 7.
- Comply with the provisions in 40 CFR 68, except as specified in LAC 33:III.5901.
- Identify hazards that may result from accidental releases of the substances listed in 40 CFR 68.130, Table 59.0 of LAC 33:III.5907, or Table 59.1 of LAC 33:III.5913 using appropriate hazard assessment techniques, design and maintain a safe facility, and minimize the off-site consequences of accidental releases of such substances that do occur.
- Submit registration: Due January 31, 1998, or within 60 days after the source becomes subject to LAC 33:III. Chapter 59, whichever is later.
- Include the information listed in LAC 33:III.5911.B, and submit to the Office of Environmental Compliance.
- Submit amended registration: Due to the Office of Environmental Compliance within 60 days after the information in the submitted registration is no longer accurate.
- Submit Emission Inventory (EI) Annual Emissions Statement: Due annually, by the 31st of March for the period January 1 to December 31 of the previous year unless otherwise directed. Submit emission inventory data in the format specified by the Office of Environmental Assessment. Include all data applicable to the emissions source(s), as specified in LAC 33:III.919.A-D.
- Report the unauthorized discharge of any air pollutant into the atmosphere in accordance with LAC 33:1.Chapter 39, Notification Regulations and Procedures for Unauthorized Discharges. Submit written reports to the department pursuant to LAC 33:1.3925. Submit timely and appropriate follow-up reports detailing methods and procedures to be used to prevent similar atmospheric releases.
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- 397 [LAC 33:III.919.D]
- 398 [LAC 33:III.927]